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#### OFFICE OF AUDITOR OF STATE

STATE OF IOWA

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**NEWS RELEASE** 

Contact: Rob Sand 515/281-5835 Or Jim Cunningham 515/281-5834

FOR RELEASE September 4, 2024

Auditor of State Rob Sand today released a report on a special investigation of the University of Iowa (University), Department of Physics and Astronomy (Department), for the period July 1, 2017 through September 30, 2021. The special investigation was requested by University officials because a member of the Department, Brian Busch, failed to disclose his ownership of D3Signtech (D3T) in compliance with the University's Conflicts of Interest and Commitment policy. University officials were also made aware of the possibility Mr. Busch may have used University assets and staff to divert revenue from the University to his personal business. As a result, the University placed Mr. Busch on paid administrative leave effective September 17, 2021. Mr. Busch was the Department's Machine Shop Manager at the time he was placed on administrative leave.

Sand reported the special investigation identified \$943,634.97 was deposited into Mr. Busch's personal bank accounts or to a Stripe account held by Mr. Busch. The \$943,634.97 was received from Xometry for jobs Mr. Busch's company, D3T, completed using University staff and equipment. Because University staff and equipment was used, the \$934,634.97 received from Xometry should have been deposited to the University's bank account.

In addition, Sand reported the procedures identified \$6,313.39 of improper personal purchases Mr. Busch made with his University issued procurement card (Pcard). The procedures also identified \$136.38 of unsupported disbursements related to shipping charges made on University accounts.

The report includes a recommendation University officials continue to improve and communicate the disclosure requirements related to conflicts of interest and conflicts of commitment. The report also includes a recommendation University officials implement procedures to ensure the Department's internal controls are strengthened, including performing RT system reconciliations, performing an independent review of adjustments and deletions made to the RT System, and maintaining inventory counts of materials and tools purchased by the Department, while performing periodic inventory counts and spot checks.

Copies of the report have been filed with the Iowa Board of Regents' Office of Internal Audit, the University of Iowa's Department of Public Safety, the Division of Criminal Investigation, the Johnson County Attorney's Office, and the Attorney General's Office. A copy of the report is available for review on the Auditor of State's website at Special Interest Reports.

## REPORT ON SPECIAL INVESTIGATION OF THE UNIVERSITY OF IOWA DEPARTMENT OF PHYSICS AND ASTRONOMY – MACHINE SHOP

FOR THE PERIOD JULY 1, 2017 THROUGH SEPTEMBER 30, 2021

#### Table of Contents

		<u>Page</u>
Auditor of State's Report		3-4
Investigative Summary:		
Background Information		5-8
Detailed Findings		8-26
Recommended Control Procedures		26-27
Exhibit:	Exhibit	
Summary of Findings	A	29
Diverted Revenues Matched to Xomerty Jobs	В	30-55
Diverted Revenue Through Protostudios	C	56-71
Payments from Brian Busch to Protostudios	D	73
Diverted Revenues – Unmatched to a Specific Xomerty Job	E	74-92
Improper and Unsupported Procurement Card Purchases	F	93
Staff		94
Appendices:	<u>Appendix</u>	
Xometry Website – SUI Search	1	97
Text Messages from Brian Busch to Employee – Management Awareness	2	98-110
Copy of Purchase Order Number J0010BE9	3	112-128
Copy of Purchase Order Number J0010F4C	4	130-138
Copy of Purchase Order Number J0013024	5	140-147
Copy of Purchase Order Number J001351F	6	148-153
Copy of Purchase Order Number J0016DED	7	154-157
Copy of Purchase Order Number J0021B47	8	158-163
Copy of Purchase Order Number J001663B	9	164-169
Copy of Purchase Order Number J00196AB	10	170-181
Copy of Purchase Order Number J0019434	11	182-215
Copy of Purchase Order Number J001A88B	12	216-247
Copy of Purchase Order Number J001699C	13	248-255
Copy of Purchase Order Number J0018FD2	14	256-272
Text Messages from Brian Busch to Employee – Time Entry	15	274-286
Text Messages from Brian Busch to Employee – Enticements	16	288-304

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#### Auditor of State's Report

To President Wilson and the Members of the Board of Regents, State of Iowa:

As a result of alleged improprieties regarding certain financial transactions and at the request of State University of Iowa (University) officials, we conducted a special investigation of the State University of Iowa, Department of Physics and Astronomy (Department) Machine Shop (Machine Shop). Based on a review of relevant information and discussions with University and Department personnel and officials, we performed the following procedures for the period July 1, 2017 through September 30, 2021.

- 1. Reviewed information gathered by University officials and Department staff to obtain an understanding of the concerns regarding an entity established by Brian Busch, a Department Engineering Specialist/Machine Shop Manager.
- 2. Obtained an understanding of University policies and procedures related to the use of University equipment and resources, conflicts of interest and commitment disclosure forms, and the use of procurement cards (Pcards).
- 3. Evaluated internal controls to determine whether adequate policies and procedures were in place and operating effectively.
- 4. Interviewed University and Department personnel, including the Head of Physics and Astronomy Department, and staff members of Protostudios to obtain an understanding of how Mr. Busch carried out his job duties.
- 5. Interviewed University and Department personnel and staff members of Protostudios to obtain an understanding of Protostudios and Mr. Busch's relationship with Protostudios.
- 6. Obtained and reviewed all charges to Mr. Busch's University Pcard to determine the propriety of selected charges.
- 7. Obtained and reviewed all charges to the Department's UPS and FedEx shipping accounts to identify payments made by the University related to shipping charges and to determine the propriety of selected charges.
- 8. Obtained and reviewed information from Xometry to identify payments to Brian Busch and/or his personal business (D3signtech) and the University for the period of July 1, 2017 through October 31, 2021.
- 9. Compared jobs recorded in the Machine Shops time reporting system (RT system) to purchase orders, job specification drawings, and accepted and shipped dates obtained from Xometry for all jobs shown as accepted and completed by the University, Mr. Busch, and/or D3Signtech to determine who received the payments and to what account(s) the payments were deposited the time period of July 1, 2017 through October 31, 2021.
- 10. Obtained and examined copies of timesheets for all Machine Shop employees and monthly hourly billing spreadsheets for the period July 1, 2017 through October 31, 2021. We compared the hours recorded on timesheets to the hours billed by the Department to Xometry job records to determine what jobs were completed by University staff and at the Machine Shop and identify any unallocated or unbilled time.

- 11. Reviewed activity in the billing records held by Protostudios to identify any jobs related to Xometry or Mr. Busch's personal business completed by Department staff.
- 12. Reviewed emails recovered from Mr. Busch's University email account to identify Xometry jobs completed, D3Signtech jobs completed, Protostudios jobs completed, and any discussions had with staff and management regarding the Xometry, D3Signtech and/or Protostudios jobs completed, and equipment/materials purchased.
- 13. Obtained computer images of the hard drives from Mr. Busch's University computers and flash drives recovered by the University's Department of Public Safety to identify any information related to goods and services for which Mr. Busch received personal payment.
- 14. Obtained and reviewed bank statements for accounts held by Mr. Busch, including an account for D3Signtech, to determine the source of certain deposits and the disposition of funds from the accounts.

The procedures identified \$943,634.97 of diverted revenues which resulted from Mr. Busch receiving payment for Xometry jobs completed by Department staff at the Machine Shop. The diverted revenues were deposited into Mr. Busch's personal bank accounts or to a Stripe account held by Mr. Busch. Additionally, the procedures identified \$6,313.39 of improper personal purchases made with Mr. Busch's University Pcard and \$136.38 of unsupported disbursements related to shipping charges made on University accounts for these jobs. The procedures also identified concerns with University policies and procedures related to conflicts of interest and commitment. The detailed findings and recommendations are presented in the Investigative Summary of this report and **Exhibits A** through **F**.

The procedures described above do not constitute an audit of financial statements conducted in accordance with U.S. generally accepted auditing standards. Had we performed additional procedures, or had we performed a review of the entire Department of Physics, other matters might have come to our attention which would have been reported to you.

Copies of the report have been filed with the Iowa Board of Regents' Office of Internal Audit, the University of Iowa's Department of Public Safety, the Division of Criminal Investigation, the Johnson County Attorney's Office, and the Attorney General's Office

We would like to acknowledge the assistance and many courtesies extended to us by the officials and personnel of the State University of Iowa during our investigation.

Rob Sand Auditor of State

August 23, 2024

#### Report on Special Investigation of the University of Iowa Department of Physics Machine Shop

Investigative Summary

#### **Background Information**

The Department of Physics and Astronomy (Department) is part of the State University of Iowa (University), which is owned and operated by the State of Iowa and under the supervision of the Board of Regents. The Department is located in Van Allen Hall on the University's campus. According to the Department's website, it "provides comprehensive and rigorous instruction, as well as research facilities and guidance in selected specialties for advanced individual scholarly work."

The Department includes a Machine Shop which provides the following services:

- machining, fabricating, welding, design and precise measurement of mechanical parts and assemblies,
- custom part prototyping and machine part problem solving,
- carpentry,
- laser plastics,
- water jet cutting,
- 3D printing, and
- training for students and faculty to work on manual milling machines, lathes, CNC milling machines and in CAD/CAM design.

The Machine Shop provides services to various University department's, faculty, research staff, and students. The Machine Shop also receives grant/contract work from various federal agencies such as the National Aeronautics and Space Administration (NASA) and European Council for Nuclear Research (CERN). According to Department officials, if the Machine Shop was not busy, they could also accept requests to perform work for other Universities and/or Colleges and private companies.

For the period of July 1, 2017 through September 30, 2021, the Machine Shop employed three full-time employees and a part time employee. The Machine Shop also employs qualified students depending on its workload. Brian Busch began employment with the Machine Shop as the Shop Manager on August 15, 2016. As the Shop Manager, Mr. Busch was responsible for:

- Ordering materials, tools and other miscellaneous supplies needed for various projects.
- Ensuring the machines were maintained and kept in good working order.
- Overseeing projects, including staffing.
- General Supervision of staff and the day-to-day operations of the Machine Shop.

According to Department staff, the Machine Shop was to be self-supporting, in that it was to cover its costs by billing for its services. To do this the Machine Shop established billing rates for its services which were based on the hours worked to complete the design, machining, and fabricating of parts. During the period of our investigation, the rate billed for University projects ranged from \$77.00 to \$86.00 per hour and the rate for external clients was \$100.00 per hour. Materials and supplies, if needed, are ordered using the Machines Shops Pcard or by purchase order (PO) process. If the materials and supplies are for a University job, they are charged to the requesting department and if the materials and supplies are for an external client, the costs are billed as part of the invoice.

#### **RT System**

According to Department staff, all jobs or requests made to the Machine Shop are processed through an email-based system known as the RT system. A ticket is created by logging into the RT system, or a user can email the job request which prompts a job to be created. Because the Machine Shop was to be self-sufficient and staff time was to be accounted for, a ticket should have been created for each job, Training Time, Shop Time, Instructional Time, etc. This information was then used to allocate costs to be billed or to allocate costs to the Machine Shops overhead such as training and shop time.

Once an employee is assigned or starts a job, the employee(s) enter their time spent working on each individual ticket into the RT system. Time is recorded in minutes. As an industry standard, the Machine Shop employees also input machine run time for all jobs. Both the employee's time and machine time are billed for each job. For example, if they spent 120 minutes (2 hours) working on design, 120 minutes (2 hours) to set up and program the machine(s) making the part, and then the machine runs for 240 minutes (4 hours) to make the part, the total time charged to the job would be 480 minutes or 8 hours. Of the 480 minutes, 240 minutes would be staff time and 240 minutes is machine run time.

Each month the University's IT department provides the department's accounting staff with a download of the RT system for the previous month. The department's accounting staff prepares invoices for external clients and University jobs. The invoices include the hours worked for each job and any materials and supplies for external clients. Invoices for external entities are mailed with payment instructions. Invoices for the various University departments are processed through the normal University workflow. Supplies and materials for University jobs are either provided by the department or purchased using the Machine Shops Pcard and then billed to the Department.

#### **Xometry**

As previously stated, the Machine Shop was to be self-sufficient and was allowed to accept jobs from outside the University when its workload allowed. During the Summer of 2018, Mr. Busch approached the Department's Administrator about Xometry, a 3<sup>rd</sup> party website. According to Department officials, Mr. Busch wanted to ensure when University work and their usual external customers work was slow, the Machine Shop had the ability to provide work to their staff while also ensuring the University was receiving income to cover the Machine Shops expenses.

Xometry offers a range of solutions to help anyone interested in developing effective prototypes and scaling up to production parts. According to Xometry's website, "it makes custom parts on demand using over 70 materials and 15 processes. It has a network of over 5,000 highly vetted manufacturers to choose from." Customers of Xometry receive "pricing, lead times and design-for-manufacturing feedback in a matter of clicks, not days." The website also talks extensively about its certifications and vetting services.

The Machine Shop became certified as a Xometry manufacturer in the Summer of 2018 and began selecting jobs from the Xometry website in the Fall of 2018. As a manufacturer, the University had a login ID to access the job boards. With this login, Mr. Busch and other Machine Shop employees could review the job requests, the materials needed, the specification drawings, and the deadline for those jobs. After a job was selected, it was up to the staff assigned to the job to create a ticket in the RT system and complete the job by the deadline of the jobs. Once the job was complete and the requirements of the job were approved and vetted, the finished product was shipped to either Xometry or directly to the requesting party. After the parts were confirmed to be in receipt of the requestor, a payment was issued via check, EFT and/or Stripe account payment.

#### **Protostudios**

According to the Machine Shop's website, the Machine Shop also collaborates with Protostudios, a state-of-the-art, rapid prototyping facility located on the University campus. According to Protostudios' website, they are a not-for-profit prototyping workshop within the University of Iowa's Department of

Innovation and Economic Development. Protostudios is equipped with 3D design software and the specialized equipment needed to produce small, high-resolution devices, associated software, and integrated electronics. Additionally, they assist entrepreneurs, inventors, companies, and University faculty and staff in creating demonstrable proof-of-concept devices. All intellectual property remains with the assisted properties.

Protostudios has 3 locations on University property, including the MERGE coworking space in downtown Iowa City, a 3D printer located at the University of Iowa Hospitals and Clinics (UIHC), and a lab across from the Machine Shop in Van Allen Hall. While Protostudios had dedicated staff, they also routinely collaborate with the Machine Shop and used Machine Shop equipment and staff to help complete jobs. Protostudios is overseen by the Director of Operations, Spencer Kuhl. As the Director, Mr. Kuhl oversaw the day-to-day operations of Protostudios, including building relationships with the Machine Shop and other entities, helping coordinate services, and invoicing all Protostudios jobs.

When Protostudios was established, they planned on offering a membership program for businesses, entrepreneurs outside of the University, as well as offering University faculty and staff memberships. There was an initial membership set up fee, followed by a monthly billing amount for access to the Protostudios lab maintained in Van Allen Hall. The membership program ended around the Fall of 2018. The membership program was cancelled due to the nature of the equipment, the liability of individuals being in the Protostudios lab unsupervised, and the requirement for new and ongoing training. Protostudios did offer to grandfather in all initial members of the program moving forward while not offering any new memberships. The only member who was grandfathered in was Mr. Busch, the Machine Shop Manager.

When we asked how Protostudios operates and bills for services, Mr. Kuhl provided an example. Mr. Kuhl stated, Protostudios is approached by a 3<sup>rd</sup> party about having an idea or needing a widget created; however, the 3<sup>rd</sup> party doesn't have the time or ability to complete the widget. At that point, Protostudios reaches out to the various shops on campus that could complete the request. If a shop accepts the job, the shop bills Protostudios for the shop's time and supplies. Protostudios then bills the 3<sup>rd</sup> party for the project. Mr. Kuhl also stated he was responsible for invoicing all Protostudios billings.

#### **Notification**

On August 30, 2021, an email was sent from Mr. Kuhl of Protostudios to Mr. Busch concerning time being charged to Protostudios he did not feel was warranted. Subsequently, this email was forwarded to the Department's accounting staff to be followed up on. According to Department staff, during the review of the job being billed to Protostudios, the purchasing department became aware of Mr. Busch's ownership of D3Signtech (D3T). The purchasing department along with the Department Administrator began a conflict-of-interest review of D3T and determined Mr. Busch's ownership of D3Signtech (D3T) was in violation of the University's conflict of interest policy.

On September 13, 2021, the Department Administrator met with Mr. Kuhl about Protostudios' work with D3T. Mr. Kuhl stated Mr. Busch was a member of Protostudios and they regularly worked with him as the owner of D3T and as the Shop Manager. Additionally, Mr. Kuhl stated Mr. Busch had informed him three and a half years ago that he had all of his conflict-of-interest information filled out with the University. Department officials found there was no record of this information ever being filed with the University until August 30, 2021.

On September 17, 2021, after the Department had concluded their review of Mr. Busch's conflict of interest documentation, Department officials determined Mr. Busch was using University resources for his personal business. As a result, Mr. Busch was placed on paid administrative leave effective September 17, 2021. In addition, based on the working relationship between Mr. Busch and William Crile and discussions with University and Department staff and officials, William Crile was placed on paid administrative leave effective September 29, 2021.

As a result of the concerns identified, Department officials requested the Board of Regents' Office of Internal Audit (Internal Audit) perform a review. On September 22, 2021, Internal Audit contacted the Office of Auditor of State and the University of Iowa Police Department outlining the concerns regarding Mr. Busch's personal business and his conflict of interest. In addition, the Office of Auditor of State received information from an individual regarding jobs being completed at the Machine Shop that would not have been normal University Machine Shop jobs. The information contained pictures of parts and materials which supported their claims. On September 22, 2021, we met with an individual who provided information and went over their concerns and pictures of parts being completed in the Machine Shop which were not University jobs.

During the course of our investigation, it was identified Protostudios had continued to work with Mr. Busch after he was placed on administrative leave. Based on the on-going relationship between Mr. Busch and Protostudios and discussions with University and Department staff and officials, Mr. Kuhl was placed on paid administrative leave effective July 6, 2023.

As a result of the concerns identified by Internal Audit and University officials, we performed the procedures detailed in the Auditor of State's report for the period July 1, 2017 through September 30, 2021.

#### **Detailed Findings**

The procedures identified \$943,634.97 of diverted revenues which resulted from Mr. Busch receiving payment for Xometry jobs completed using Machine Shop equipment and staff. The diverted revenues were deposited into Mr. Busch's personal bank accounts and into a Stripe account which included D3T and Mr. Busch's name.

Additionally, the procedures identified \$6,313.39 of improper personal purchases made with Mr. Busch's University Pcard. The procedures also identified \$136.38 of unsupported disbursements related to shipping charges made on University accounts for these jobs.

Because sufficient inventory records and supporting documentation was not available from the Department for the period of the investigation, it was not possible to determine if any materials, and/or tooling purchased by the Machine Shop were used for personal use.

All findings are summarized in **Exhibit A** and a detailed explanation of each finding follows.

During the course of our fieldwork, we interviewed University officials and staff to obtain explanations for certain transactions and processes followed during and after Mr. Busch's employment with the department. The information University officials and staff is included in the following sections of the report.

A Detective with the University of Iowa Department of Public Safety requested a meeting with Mr. Busch, but was informed Mr. Busch was seeking legal representation. Mr. Busch stated he would consult his legal representation and provide an answer to the Detective. Mr. Busch did not return communication confirming to meet with the Detective with the University of Iowa Department of Public Safety. As a result, we did not attempt to interview Mr. Busch.

#### ADMINISTRATIVE POLICIES AND PROCEDURES

As part of our investigation, it was necessary to understand restrictions placed on staff regarding use of University resources for personal use. The Department follows established University policies and procedures for its daily administrative operations. The following are several policies and definitions used throughout the report.

• Use of Other Resources – Chapter 16 of the Operations Manual covering ethics includes a statement within section 16.4 which states, "Staff will refrain from unauthorized use of work

effort or resources for non-University business." The section also states, "Staff shall safeguard University time and property from inappropriate use, appropriation or abuse."

• Conflict of Interest and Commitment – The University and Department Conflict of Interest Policy require faculty and staff members to disclose their outside activities that may unduly interfere with the time necessary to fulfill their obligations to the University. The policy requires a management strategy be developed for any activity which presents a potential conflict of commitment to ensure the staff's University obligations are not adversely affected. It also requires faculty examine the total amount of time they spend in outside activities, whether professional or non-professional, and determine whether the time devoted to these activities unduly interferes with their obligations to the University.

The University also requires staff to complete online conflict of interest and conflict of commitment statements. Staff are required to update combined conflict of interest and conflict of commitment statements at least annually. If a staff person becomes aware of or performs a service which may be a conflict of interest or commitment during the year, they are required to submit an updated online disclosure form for review and approval.

Conflict of interest is defined by Operations Manual as "a situation in which faculty, staff, or student employees have significant financial or other personal considerations that may compromise, or have the appearance of compromising, their professional judgment or integrity in teaching, conducting or reporting research, or performing other University obligations." Conflict of commitment is defined by the University of Iowa's Operations Manual as "a situation in which an employee engages in an outside activity that interferes, or appears to interfere, with fulfillment of the employee's obligations to the University, even if the outside activity is valuable to the University or contributes to the employee's professional development and competence."

All activities require advance disclosure to and authorization from the Department Executive Officer prior to initiating the activity. However, the University policy also states, "few activities which represent, or appear to represent, a conflict are actually prohibited."

The policy also provides a list of prohibited activities. Specifically, the policy includes, "Undertaking a business or research opportunity ordinarily conducted by the University before the University has been offered the right of first refusal. A written waiver must be obtained by the employee before undertaking a business or research opportunity."

Once disclosed, the potential conflict is evaluated by University staff. There are three possible outcomes from the evaluation under the policy:

- 1. no action is required beyond disclosure,
- 2. disclosure and management (including alteration or elimination of the conflict), or
- 3. prohibition of the activity.

Once the conflict is evaluated, a management plan is developed which specifies how the conflict is to be handled. The management plan sets forth the guidelines under which the individual may participate in the activity. The plan may also prohibit the individual from participating in the activity if the University does not approve.

#### **D3SIGNTECH**

As previously stated, University officials expressed concerns in the Spring of 2019 regarding jobs completed on the RT system at the Machine Shop which listed D3T as the requestor of the jobs. Specifically, there were 3 RT jobs, 1192 – SSA Connection Plate, 1433 – Machine Time, and 1641 Finish Box that were billed by the Department to D3T (Mr. Busch) for the hours input on the RT system for each of these jobs at the external rate.

Department officials stated, the 3 jobs in question, 1192, 1433, and 1641, were billed at the external rate to D3T as these were not University jobs. Additionally, officials stated although these jobs were billed, the expectation was any jobs outside of the Machine Shop, explicitly for D3T were not to be completed at the Machine Shop, with Machine Shop employees and/or using Machine Shop machines or materials. We were able to confirm Mr. Busch paid the University \$3,550.00 for the 3 jobs identified.

During an interview with the Department Administrator regarding Mr. Busch and D3T, he stated that Mr. Busch should not have done any work for his personal business at the Machine Shop, using University resources and staff. He added that it was, "categorically not allowed". As a University employee, Mr. Busch was to complete a Conflicts of Interest and Commitment form on an annual basis.

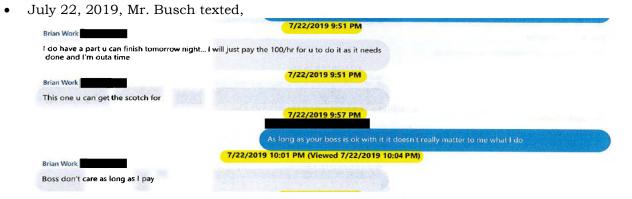
According to Machine Shop staff we spoke with, Mr. Busch owned D3signTech (D3T). According to D3T's website, (www.d3signtech.com) D3T offered milling, turning, sheet metal work, design, and custom machining. The Xometry invoices listed an address which corresponds to Mr. Busch's residence in Williamsburg, Iowa. The www.d3signtech.com website has since been taken down and can no longer be found using an internet search function.

During conversations with various employees of the Machine Shop and employees of Mr. Busch's personal business, we were told on multiple occasions that while he had machines and tools at his personal shop which would allow him to complete some work, his personal shop was not a complete shop and did not have the same capabilities of the Machine Shop. Additionally, the services provided and rendered by Mr. Busch's personal business were the same as the Machine Shop.

Xometry's website identified D3signTech (D3T) as a certified manufacturer for Xometry. When we searched the Xometry Marketplace section of the website for the University of Iowa, D3T's information populated as a search result. A copy of the search results is included in **Appendix 1**. As shown in the **Appendix**, D3signTech is located in Williamsburg, Iowa. No other information was listed for the University of Iowa. A current search of the website does not return any information related to the University of Iowa.

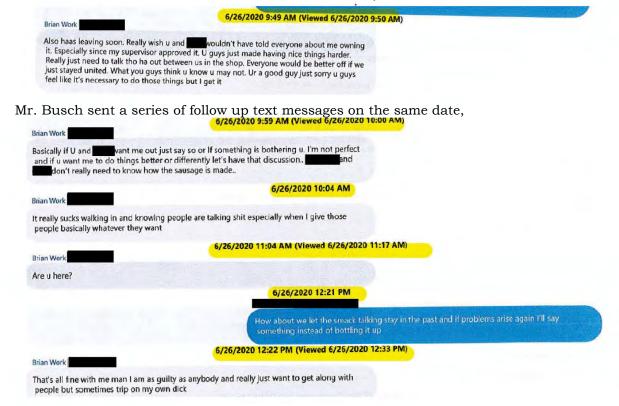
A search of the Iowa Secretary of State website returned no results for "D3signTech." A search for D3T returned D3T, LLC. According to the information on the Secretary of State website, D3T, LLC. was registered on December 16, 2021. According to the Certificate of Organization, D3T was organized as a Limited Liability Corporation. The Articles list Brian Busch as the manager. No other individuals were listed as officials or managers of the LLC. The Secretary of State website also included a "Declaration of Dissolution" for D3T dated August 16, 2023. According to the letter, D3T was dissolved for failure to deliver the 2023 Biennial Report as required by Iowa Code Section 489.209.

As part of the investigation, we were provided text messages from Mr. Busch to Machine Shop employees. During our review of the text messages, there were instances of the former employee asking about if the Department was aware of the jobs they were requested to work on. Copies of the text messages are included in **Appendix 2**. Examples of the text messages are included below:



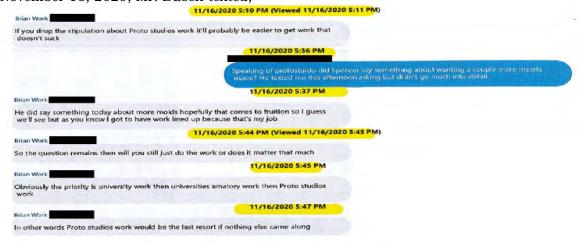
According to Mr. Busch's boss, they were not aware Mr. Busch was performing work for his personal business at the Machine Shop and that would "categorically not been allowed".

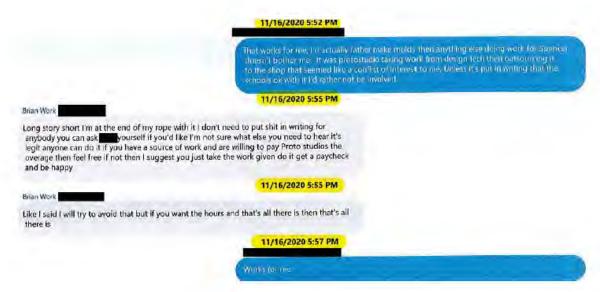
• June 26, 2020, Mr. Busch texted,



The Haas, Mr. Busch is referring to is a personal machine of Mr. Busch's which was placed in the Machine Shop during the COVID pandemic without the University or Department officials' knowledge. Once it was known the machine was for Mr. Busch's personal business and was not insured by the University, it was moved out of the Machine Shop.

• November 16, 2020, Mr. Busch texted,





During conversations with the Department Administrator, he stated they were not aware of Mr. Busch's personal business or his use of University staff and resources to complete work for his business. Furthermore, the Department Administrator stated, had they been aware of it, the activity would not have been allowed.

As part of the University's internal review, Department officials determined there was no record of Mr. Busch disclosing his ownership of D3SigtnTech (D3T) until August 30, 2021. University officials also determined Mr. Busch did not submit any conflict of interest or commitment forms until August 30, 2021.

Because D3signTech (D3T) performed work which was ordinarily conducted by the University and Mr. Busch requested and was approved by the Department Administrator to use Xometry to supplement the machine Shops work when things were slow, Mr. Busch should have disclosed D3T was a potential conflict of interest at the time he created and accepted jobs from Xometry.

#### **DIVERTED REVENUE - D3SIGNTECH (D3T)**

As previously stated, the Machine Shop became certified as a Xometry manufacturer in the Summer of 2018 and the Machine Shop started accepting jobs from the Xometry website in the Fall of 2018. As a certified manufacturer, Mr. Busch and other Machine Shop employees could review the job requests, the materials needed, the specification drawings, and the deadline for those jobs. After reviewing the available information, Mr. Busch or an employee could accept a job from the Xometry site.

However, prior to beginning a job, the Machine Shop employs were expected to create a RT system job entry for each job to track the time the Machine Shop's staff was incurring for these jobs. Once the job was completed, it would be shipped to Xometry or the requesting entity. Once the job was approved by Xometry or the requesting entity, Xometry should have remitted payment to the University.

Also as previously stated, when we used the Xometry website search function to search for the "University of Iowa," the site returned D3signTech as a match for the University of Iowa. A copy of the search result is included in **Appendix 1**. When we asked a Xometry representatives why D3signTech would show up as a result for the University of Iowa, they could not provide an explanation. A subsequent search done at the completion of investigation turned up no search results for the "University of Iowa."

As a result of the initial search, we requested and obtained all purchase orders for jobs accepted by D3T and the Machine Shop. The information provided by Xometry included the job accepted, shipped dates, specification drawings, payment issuance date, and payment method for the period September 13, 2018 through September 30, 2021.

During our review of purchase orders received from Xometry, we identified 636 jobs totaling \$1,026,129.09 completed by D3T and the Machine Shop during the period of our investigation. Using the purchase orders, jobs accepted, and shipped dates received from Xometry, we created a schedule of all Xometry purchase orders for the period September 2018 through September 2021.

**Table 1** summarizes the number of Xometry Jobs completed and the amounts to be paid to the University and D3T.

			Table 1
Account	Number of Jobs	Aı	mount to be Paid by Xometry
Physics Machine Shop	49	\$	74,639.21
D3T	587		951,489.88
Total	636	\$	1,026,129.09

As illustrated by the **Table**, we identified 49 of the 636 jobs were completed by the Machine Shop and the amount paid by Xometry was deposited into the University's bank account. The remaining 587 jobs were completed by D3T. During our review, we identified instances where the amount to be paid per the Xometry purchase orders were reduced by credits and or advances. **Table 2** shows where the \$943,634.97 paid by Xometry to D3T was deposited.

	Table 2
Deposited to	Amount
Personal Bank Account	\$ 405,871.53
Stripe	334,960.51
Not provided by Xometry	202,802.93
Total	\$ 943,634.97

As shown in the **Table**, Xometry did not provide deposit information for \$202,802.93 paid to D3T. During our review of payment records provided by Xometry, we identified 13 instances totaling \$13,315.65 in payments from Xometry to D3T which could not be tied to purchase orders we were provided. We did note that three of the 13, totaling \$1,983.49, were duplicate payments on purchase orders completed by D3T that Xometry had already paid out.

As previously stated, on September 22, 2021, we met with a Machine Shop employee who provided pictures of parts in various forms of completion as well as pictures of materials in the Machine Shop which would not have been needed for the Machine Shop's normal business. On December 15, 2021, we interviewed a former Machine Shop employee. During the interview, the individual stated they had text messages between themselves and Mr. Busch which included instructions, job board screenshots, and pictures of parts in various stages of completion. The former Machine Shop employee provided us a copy of all their text messages with Mr. Busch.

To identify Xometry jobs completed for the University and D3T at the Machine Shop using University employees and resources, we performed the following procedures.

1. Using the Xometry purchase orders, we created a schedule of all Xometry purchase orders for the period of September 2018 through September 2021. The accept date and shipped date provided by Xometry provide the time frame in which a job would have needed to be completed.

- 2. Using the information compiled in step 1, we met with a current and former Machine Shop employee and walked through each job pulling up the job specification drawings, provided by Xometry, to inquire if they remember the job, if they worked on the job, and if they recalled the job, an estimate of hours it would have taken to complete the job. We asked staff to identify jobs done for the University and those done for D3t or other entities.
  - As previously stated, we had been provided pictures and text messages related to jobs done at the Machine Shop for D3T. During these interviews, we showed the pictures and text messages to staff to help determine if they recalled the job.
- 3. Using the accept and shipped dates provided by Xometry we compared the description and timing to the descriptions on the RT system and/or in the RT job name. We attempted to tie out Xometry jobs completed to specific RT job numbers on the SUI system. The details of the RT Job, the RT job number and the number of RT hours were included. Below are examples of what we identified based on this procedure.
  - For some jobs on the RT system, the name tied out to the exact Xometry Job #. For example, RT job 1891 described as "Xom Part J001BFF9" is the same as Xometry J001BFF9
  - For some jobs on the RT system, the names tied out to the part id of the Xometry Job Purchase Order. For example, RT Job 1345 described as "Xometry job 00CD71D," the "00CD71D" is the part ID for Xometry Job J001210F.
  - For some jobs on the RT system, their names identify the type of part that was built. For example, RT Job 1360 described as "Xom Heat Sink" ties to the name of the part on the Xometry Job Purchase Order, J0012A5C.
  - For other Xometry Jobs, we tied out to Jobs on the RT system based on conversations with staff and identifying certain jobs that were not identifiable as Xometry jobs on the RT system, but there were no other jobs on the RT system listed for the University. Based on the dates of the RT entries and dates of when the jobs were completed these were able to be linked together.
- 4. For Xometry jobs which had accept dates and ship dates and a corresponding date range on the RT system for which no University job or a job for another entity was identified as being competed, we inquired of University officials as to how the time was billed.

Based on the procedures performed, we identified 67 D3T Xometry jobs which were completed at the Machine Shop using University employees and resources. The 67 jobs, totaling \$173,097.60, are included on **Exhibit B**. The following are examples of the jobs which used Machine Shop equipment and staff for which D3T received the payment.

- Nometry job J0010BE9 was accepted on November 12, 2018 and shipped to the client on December 14, 2018. Xometry remitted a payment of \$7,500.00 for completing the job which was deposited into Mr. Busch's personal bank account on January 14, 2019. We were able to determine this job was completed at the Machine Shop by comparing the job specification drawings obtained from Xometry to pictures taken of the part in various stages of production in the Machine Shop. In addition, we were able to reconcile the job to an RT job entry, number 1093 which had 16.0 hours of work charged by Mr. Busch and two other Machine Shop employees. The RT job was created on November 26, 2018 with time entered on the job on November 29, November 30, December 6, and December 12, 2018. A copy of the purchase order, the job specification drawings, and pictures taken of the part in the Machine Shop are included in **Appendix 3**.
- Xometry job J0010F4C was accepted on November 27, 2018 and shipped to the client on December 20, 2018. Xometry remitted a payment of \$2,850.00 which was deposited into Mr. Busch's personal bank account on January 14, 2019.

We were able to determine this job was completed at the Machine Shop by comparing the job specification drawings obtained from Xometry to a picture taken of the part on Machine Shop equipment. In addition, we noted the specification drawings were saved on a University computer seized from the Machine Shop. In addition, in a text message sent from Mr. Busch at 5:40 pm on December 17, 2018 to an employee, Mr. Busch stated "I have to absolutely ship that plat on Wednesday", which was December 19, 2018. The employee responded with, "I was planning on it actually if it was done by midday on Wednesday would that be ok?".

We were also able to reconcile this job to two RT job entries, 1190 and 1192, respectively which had 9.0 hours of worked charged by Mr. Busch and the employee receiving the text messages. RT job number 1190 was created on December 17, 2018 with time entered on the job on December 17, 2018, the time entered was adjusted off and the job was deleted from the RT system on December 17, 2018. RT job number 1192 was created on December 17, 2018 with time entered on the job on December 17 and December 21, 2018. A copy of the purchase order, the job specification drawings, the picture of the part on Machine Shop equipment, the blueprint drawings found on a University computer, and the text messages exchanged between Mr. Busch and an employee are included in **Appendix 4**.

• Xometry job J0013024 was accepted on March 9, 2019 and shipped to the client on March 14, 2019. Xometry remitted a payment of \$1,000.00 for completing the job which was deposited into Mr. Busch's personal bank account on April 15, 2019.

We were able to determine this job was completed at the Machine Shop by comparing the job specification drawings obtained from Xometry to a series of text messages from Mr. Busch to an employee. In those text messages, Mr. Busch sent pictures of the part from the Xometry website to the employee. In addition, in the texts sent by Mr. Busch, he stated, "I got a part for you on Sunday but you're gonna have to bust your ass ...". The employee asked Mr. Busch when the part needed to be done by and Mr. Busch responded with "14th". After the employee confirmed they understood the task and provided a plan of hours they were going to work, Mr. Busch responded with "I sent u email with files stp and pdf...get we done. Don't make a ticket or log hours...cash money \*money bag emoji\* holmes." During our review of the RT system, we identified unbilled and unallocated time during the accepted and shipped dates. However, the job specification drawings and text messages between Mr. Busch and an employee, show that University equipment was used to complete this job. A copy of the purchase order, the job specification drawings, and the text messages exchanged between Mr. Busch and an employee are included in **Appendix 5**.

• Xometry job J001351F was accepted on March 22, 2019 and shipped to the client on April 10, 2019. Xometry remitted a payment of \$8,250.00 for completing the job, which was deposited into Mr. Busch's personal bank account on June 14, 2019.

We were able to determine this job was completed at the Machine Shop by comparing the job specification drawing obtained from Xometry to a series of pictures taken of the part on Machine Shop equipment. On March 31, 2019, a text was sent from an employee to Mr. Busch stating, "It just got done." Mr. Busch asked for a picture, the employee responded with a picture of the completed part that matched the job specification drawing as well as the series of pictures of the part on Machine Shop equipment. During our review of the RT system, we identified unbilled and unallocated time during the accepted and shipped dates. However, the job specification drawings, pictures of the part on Machine Shop equipment, and text messages between Mr. Busch and an employee, show that University equipment was used to complete this job. A copy of the purchase order, the job specification drawing, pictures of the part on Machine Shop equipment, and the text messages exchanged between Mr. Busch and an employee are included in **Appendix 6**.

• Xometry job J0016DED was accepted on August 3, 2019 and shipped to the client on August 12, 2019. Xometry remitted a payment of \$750.00 for completing the job, which was deposited into Mr. Busch's personal bank account on September 16, 2019.

We were able to determine this job was completed at the Machine Shop by comparing the job specification drawing obtained from Xometry to a text message sent from an employee to Mr. Busch of the completed part on August 9, 2019. Mr. Busch responded with "need close up of inspection it self", the employee provided a picture as requested. We also noted the specification drawing was saved on a University computer seized from the Machine Shop. During our review of the RT system, we identified unbilled and unallocated time during the accepted and shipped dates. However, the job specification drawings, the blueprint drawing found on a University computer, and text messages between Mr. Busch and an employee, show that University equipment was used to complete this job. A copy of the purchase order, the job specification drawing, the blueprint drawing found on a University computer, and the text messages exchanged between Mr. Busch and an employee are included in **Appendix 7**.

• Xometry job J0021B47 was accepted on June 1, 2020 and shipped to the client on June 23, 2020. Xometry remitted a payment of \$7,000.00 for completing the job, which was deposited into Mr. Busch's personal bank account on August 14, 2020.

We were able to determine this by comparing the job specification drawings obtained from Xometry to a text message sent from an employee to Mr. Busch of the job specification drawing. During our review of the RT system, we identified unbilled and unallocated time during the accepted and shipped dates. However, the job specification drawings and text messages between Mr. Busch and an employee, show that University equipment was used to complete this job. A copy of the purchase order, the job specification drawings, and the text message exchange between Mr. Busch and an employee are included in **Appendix 8**.

Of the 67 D3T jobs completed at the Machine Shop, we identified 45 jobs, totaling \$121,326.45, were deposited into Mr. Busch's personal bank account. In addition, we identified 12 jobs, totaling \$23,650.00, were deposited to a Stripe account held by Mr. Busch. The remaining 10 D3T jobs, totaling \$28,121.15, were completed, and paid per Xometry's purchase orders; however, the payment issuance date and payment methods for these jobs were not provided to us as part of our request from Xometry. As a result, we cannot determine if the funds were deposited into a personal account or Stripe.

Because Mr. Busch did not disclose or file a conflict of interest and commitment form with the University related to his D3T business, and Mr. Busch used Machine Shop equipment and staff for his personal business and gain, the \$173,097.60 included in **Exhibit B**, is included in **Exhibit A** as improper diverted revenue from the University.

As previously stated, University officials expressed concerns in the Spring of 2019 regarding jobs completed on the RT system by the Machine Shop which had D3T as the requestor of the jobs. Specifically, there were 3 RT jobs: 1192 SSA Connection Plate, 1433 Machine Time D3signTech.com, and 1641 Finish Box (D3signTech). Based on University officials, these jobs were identified as D3T Xometry jobs and are included in **Exhibit B**.

It was also noted that RT job 1641 Finish Box (D3signTech) was also a Protostudios job that was billed to Mr. Busch by Protostudios and will be discussed in more detail below. The Department billed Mr. Busch for each of these jobs based on the hours input on the RT system at the external rate. **Table 3** summarizes the total billings issued to Mr. Busch from the Department for RT jobs identified as D3T jobs.

Table 3

Invoice Date	Invoice Number	Description	Unit Price	Amount
04/29/19	1192	16 Hours – SSA Connection Plate	\$100.00	\$1,600.00
05/28/19	1433	2 Hours – Machine Time 4/3/19; 6 Hours – Machine Time 4/6/19	100.00	800.00
08/05/19	1641	11.5 Hours – Finish Box Put Holes in sides of box. Tap Holes 8-32 through bottom of box. Blend the radi to Walls Machine Radii edges	100.00	1,150.00
Total		_		\$3,550.00

As illustrated by the **Table**, Mr. Busch was billed a total of \$3,550.00 by the University. During our review, we identified two payments made from Mr. Busch's personal bank accounts to the University of Iowa totaling \$3,550.00. The first payment was made on June 12, 2019, with check number 1156 for \$2,400.00 and was deposited in the University's bank account on the same day. The second payment was made on September 18, 2019, with check number 1830 for \$1,150.00 and was deposited in the University's bank account on the same day. As a result, the two payments totaling \$3,550.00 are included in **Exhibit A** as repayments.

#### **DIVERTED REVENUE - PROTOSTUDIOS**

As previously stated, Protostudios offered a membership program for businesses, entrepreneurs outside of the University, as well as offering University faculty and staff memberships. The membership program ended around the Fall of 2018. Protostudios did offer to grandfather in all initial members of the program. However, the only member who was grandfathered in was Mr. Busch, the Machine Shop Manager. According to available documentation, Mr. Busch paid \$225.00 for a membership for the period December 2018 through February 2019 and \$225.00 for a membership for the period June 2019 through August 2019.

The procedures performed during the investigation also identified 23 D3T jobs totaling \$71,673.87 which were recorded on the RT system as jobs for Protostudios. The 23 jobs are listed in **Exhibit C.** We determined the 23 jobs were for D3T using the same procedures discussed above. Based on the procedures performed we determined:

- The 23 jobs were recorded as 19 different projects on the RT system. Two of the 19 projects recorded on the RT system included multiple Xometry jobs.
- The 19 jobs recorded on the RT system included "Protostudios" as a description recorded in the RT system.
- Of the 19 jobs recoded on the RT system, 10 of the jobs were created by Mr. Busch, and nine of the jobs were created by Machine Stop staff.
- Of the 19 jobs, 16 were billed to Protostudios by the Department for the hours listed on the RT system. These jobs totaled 325.50 hours totaling \$25,333.00 billed.
- Of the 23 projects, only seven were done during the period Mr. Busch was a paid member of Protostudios. The remaining jobs were all done when Mr. Busch was not a member of Protostudios.
- Job RT 1662 and RT 1674 were billed to Protostudios at a fixed rate amount and not based on the hours charged on the RT system.
- Job RT 1840 had the time recorded on the RT system which was later adjusted to show zero hours charged. This resulted in the Department not billing Protostudios. There was no information recorded in the RT system explain why the hours were adjusted to Zero.
- We also identified one Xometry job was split between two RT job numbers. RT Job number 1639 included a description "Protostudios" and is include in **Exhibit C**. Job 1641 was shown as a job for D3T and was questions by the Department and is included in **Exhibit B** as a diverted revenue and in **Table 2** above as a repayment by Mr. Busch.

The 23 jobs listed in the **Exhibit C** were accepted from the Xometry job board by Mr. Busch/D3T. Once accepted a Protostudios ticket was created by Mr. Busch or a Machine Shop employee on the RT system. A Machines Shop employee completed the job and entered time on the RT system. The Department billed Protostudios for the work completed for D3T using University staff and resources. When we asked Mr. Kuhl about these jobs, he stated, "I don't know. You have asked me that already. I have no idea."

According to Mr. Kuhl's Supervisor at Protostudios, Mr. Busch would not be allowed to create RT jobs on behalf of Protostudios Furthermore, Mr. Busch would not be able to create a job for Protostudios and "farm it out" on their behalf.

As previously stated, we were provided copies of text messages, screenshots of emails, and pictures. During our review of the text messages exchanged between Mr. Busch and a former employee, we identified instances where Mr. Busch instructed the former employee to create a ticket with Protostudios not D3T as the requestor. Those instances identified include the following:

- July 20, 2019 Text from Mr. Busch to a former employee, "I'll make a job ticket and put the files in it for u. Will bill this through protostudios...throw Spencer a bone". Based on procedures performed, we determined the text was referencing Xometry job J001663B, a D3T job, completed at the Machine Shop which was shipped on July 30, 2019, and Mr. Busch received \$1,102.63 for completing the job. A copy of the purchase order, the job specification drawings, the text message exchange between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 9**.
- October 18, 2019 Text from a former employee to Mr. Busch, "Is there a ticket made up for these?" Mr. Busch responds with, "Sorry no just make on call protostudios ball parts." Based on procedures performed, we determined the text was referencing Xometry job J00196AB, a D3T job, completed at the Machine Shop which was shipped on October 22, 2019, and Mr. Busch received \$3,500.00 for completing the job. A copy of the purchase order, a picture of the completed parts in the Machine Shop, the text message exchange between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 10**.

During our review of the pictures, such as screenshots of emails and of the RT system, provided by a Machine Shop employee, we identified jobs recorded in the RT system which were identified as Protostudios jobs. However, these were actually for Xometry. Based on discussions with Mr. Kuhl, he stated, "Protostudios didn't have anything to do with Xometry, because the bar (to get involved) was way too high." Those instances identified are detailed below:

- We identified Xometry job J0019434 was a D3T job which was completed at the Machine Shop, for which Mr. Busch received \$1,875.00 for completing the job. We were provided a screenshot of a forwarded email from Mr. Busch to the Machine Shop employees. The original email that was forwarded was from Mr. Kuhl and stated, "One of our clients has a machining request. It's a tight schedule, delivery on Monday." The email also included a step file and a pdf drawing of parts. We received a screenshot of the PDF of the part specification drawing and it agrees exactly to the job specification drawing for the Xometry job we received from Xometry. Additionally, on October 11, 2019, Mr. Busch sent a text to a former employee, "Did the job for hood have a shop ticket? Just need to be sure if the machine shop machines are used we charge it out. For all I care I can charge it to instructional time ..." A copy of the purchase order, the job specification drawings, a picture of the forwarded email including the attachments, the text message exchange between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 11**.
- We identified Xometry job J001A88B was a D3T job which was completed at the Machine Shop for which Mr. Busch received \$9,750.00 for completing the job. The screenshots of the RT system that were provided showed Mr. Kuhl was the requestor of RT job 1848 Large Monolithic Structure. In addition, there is a screenshot of Mr. Busch changing the name of the RT job to Large Monolithic Structure Max Hours 100 on December 20, 2019. We also received pictures of the part in process on Machine Shop equipment and the part agrees to the job specification drawings provided by Xometry. The part is discussed in the text messages exchanged between Mr. Busch and a former employee.

The former employee sends a text discussing the size of the part and how to make sure its secured on the machine. Mr. Busch sent a text to the former employee on December 14, 2019 stating, "Charge fixture time to shop time. Btw basically were at max project charge time at this point so its shop time, training time from here on." Mr. Busch sends another text to the former employee on December 18, 2019 stating, "Also I was wrong on number more time can be charged to project. Ur time last weekend can be charged to it. I though we were already over 100.".

We identified from the RT system the former employee charged exactly 100 hours to the job, but also had 25.0 hours of unbilled time for that pay period. A copy of the purchase order, the job specification drawing, pictures of the RT system for the job, pictures of the part in process on a Machine Shop machine, the text message conversation between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 12**.

As shown above, Mr. Busch instructed Machine Shop employees to create tickets for Protostudios. We also identified an instance where Mr. Busch was the RT job requestor for a job that was listed as a Protostudios job; however, the job was for Mr. Busch's personal business.

Specifically, we identified Xometry job J001699C as a D3T job which was completed at the Machine Shop resulting in Mr. Busch receiving \$2,675.00 for completing the job. The description on the Xometry purchase order is "SingleBoard\_HeatSink" and was determined to be RT job 1646 Heat Sink, the requestor on the job was Mr. Busch. The screenshots of the RT system for job 1646 showed the subject was "xom heat sink", as well as "Bill to Protostudios." In addition, a former employee texted Mr. Busch and asked "... what was the next job?". Mr. Busch responds with "Heat Sinks \*redacted\* is going to wj." A copy of the purchase order, the pictures of the RT system, the text message exchange between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 13**.

Based on discussions with Protostudios and Department officials and staff, as well as our review of the text message conversations between Mr. Busch and a former employee, the Protostudios RT jobs, listed in **Exhibit C**, were jobs for D3T Xometry and not Protostudios jobs.

As illustrated by **Exhibit C**, we identified Mr. Busch was billed by Protostudios for 15 of the 23 jobs which were identified as Protostudios jobs in the RT system. The 15 jobs billed to Mr. Busch totaled \$21,212.98. Of the \$21,212.98 we determined,

- \$17,494.50 was billed for the actual RT jobs.
- \$2,444.98 was billed for the 15% Protostudios service fee.
- \$1,048.50 was billed for projects not related to a Xometry job. Specifically invoice numbers 1255 and 1401.
- \$225.00 was billed for membership dues for the period December 13, 2019 through March 13, 2019 on invoice number 1303. This invoice was dated June 13, 2019.

The **Exhibit** does not include six invoices totaling \$1,871.92 billed to Mr. Busch because we were unable to match these jobs to a D3T Xometry jobs.

As previously stated, we obtained Mr. Busch's personal and business bank statements. We scheduled all payments issued from Mr. Busch's bank accounts to Protostudios. **Exhibit D** lists the payments issued from Mr. Busch's personal and business bank accounts to Protostudios. As illustrated by the **Exhibit**, we identified 13 payments totaling \$23,678.70 issued to Protostudios which include invoice numbers, membership, and labor listed in the memo lines of the payments.

Based on the invoices, \$17,494.50 of the \$23,678.70 paid by Mr. Busch, were for Xometry jobs recorded on the RT system as Protostudios but were for D3T, Mr. Busch's company. The \$17,494.50 is included on **Exhibit A** as repayments.

#### DIVERTED REVENUE - REMAINING XOMETRY

As previously stated Xometry provided us purchase orders, accepted and shipped dates, and payment information for all jobs accepted by D3T and the Machine Shop for the period September 13, 2018, through September 30, 2021. As shown in **Table 1**, there was a total of 636 jobs of which 587 were related to D3T. Of the 587 jobs, 67 were tied directly to D3T and 23 were recorded as Protostudios jobs on the RT system but were related to D3T. The remaining 520 jobs could not be directly tied to D3T or

Protostudios based on the information recorded in the RT system or other available information. Based on the information received from Xometry, the last D3T job was started on September 30, 2021, which was after Mr. Busch and another employee were placed on paid leave by the University. Because we cannot determine if the jobs were done at the Machine Shop, this job was not included in our review. The remaining 519 D3T Xometry jobs are listed on **Exhibit E**.

Of the 519 jobs listed on **Exhibit E** we determined

- 191 jobs totaling \$284,545.08, were deposited in Mr. Busch's personal bank account.
- 228 jobs totaling \$311,310.51, were uploaded to a Stripe account held by Mr. Busch.
- 100 jobs totaling \$174,681.78, were completed, and paid per Xometry's records. However, the payment issuance date and payment methods of these jobs were not provided by Xometry. As a result, we cannot determine where the funds were deposited. However, the purchase orders listed Brian Busch or D3T.

Additionally, we identified eight deposits made to Mr. Busch's personal bank account totaling \$40,027.15 that were not included in the payment records we provided by Xometry. These eight deposits were made from August 2018 through December 2018. We were unable to determine what jobs these deposits were for as Xometry did not provide records for these.

Based on a review of the text messages between a former employee and Mr. Busch, we identified numerous instances where Mr. Busch instructed the former employee on how to charge time for certain jobs and not mark all hours worked on others. Except as noted below, copies of selected text messages showing these conversations are included in **Appendix 15**. Examples of these text message exchanges are listed below:

- January 27, 2019, Mr. Busch texted an employee "Ok for today put in 3 hours to project and the rest to Protostudios training u will have to may ticket fro that." The employee responded to Mr. Busch, "Ok sounds good. For the ticket going to Protostudios do I put my name as the requestor?" Mr. Busch responded with "Spencer Kuhl".
- March 24, 2019, Mr. Busch texted an employee "Please use RW-12 on those parts...hoping inside can get done today so we stay on track...btw don't log these hours..."
- March 25, 2019, Mr. Busch texted an employee "Go ahead and log ur time yesterday as training. I had to throw those back as there is no way we could deliver and they were suggesting it so I had no legs to stand on. Too short of a pull this time." The former employee responded to Mr. Busch, "OK. Should I charge time to a ticket for today?" Mr. Busch responded with "Yes it's a u xom job."
- April 14, 2019, an employee texted Mr. Busch "What should I put time on today?" Mr. Busch responded to the employee, "What did u work on? If it was some cleaning machine etc. charge that to shop time... if it was playing with water jet training. Other than that don't charge it. I will take care of u." The employee responded to Mr. Busch, "Ok I'll put hrs on shop time then that'll leave 2 not put on anything. I just screwed up that aluminum part willy had jetted out so we just cut out another one." Mr. Busch responded to the former employee, "Ok it happens to us all I still got u. How far did u get on it cuz it has a due date."
- May 9, 2019, Mr. Busch texted an employee "Bottom line any hours you want paid for need to be billed ... You basically have two options one look at the parts that \*redacted\* put in the queue or to get on ours on the tree account and pick something." The employee responded to Mr. Busch "is the tree account the xom stuff?" Mr. Busch responded "It sure is \*redacted\* can help you get logged on. Sorry man we're just really scraping the bottom of the barrel at this point." The employee responded to Mr. Busch "It's ok I'll see if \*redacted\* has anything and if he doses then I'll look on xom. Doesn't I mean."
- July 23, 2019, Mr. Busch texted an employee "That box u can add hours to that work order...not sure how it goes together exactly." The employee responded to Mr. Busch "Oh ok

I thought those were for Spencer along with that oval thing do last night I made a ticket up for it and today he didn't have any idea what they were. The oval thing is gone today though so someone must have grabbed it is there a way to credit his account for four hours?" Mr. Busch responded to the employee "It doesn't matter that much cuz I'll get the bill for both so nbd...I just didn't have the time to run the box through spencer." The employee responded to Mr. Busch "Ok. Maybe you could let him know so he's not confused." Mr. Busch responded to the employee "He just gets to Bill me for doing nothing really but I'll let h know."

- October 3, 2019, Mr. Busch texted an employee "I put a job in ur queue please limit charged hours to 12. I can't imagine u would have more actual \*redacted\* time in them..machine run time I'm sure will." The employee responded to Mr. Busch, "If I were to work 18 hours this weekend what should I put the other 6 towards?" Mr. Busch responded with "Shop time just do some cleaning and organizing while things are running. Point I am trying to make is I don't super care as long as things get done and we can charge 80 percent of ur time weekly." A copy of the purchase order, the job specification drawings, the blueprint drawing found on a university computer, the text message exchange between Mr. Busch and an employee, and the Protostudios invoice issued to Mr. Busch are included in **Appendix 14**.
- October 25, 2019, Mr. Busch texted an employee "How many hours u need this weekend? Basically this job is 10 charged \*redacted\* hours and then u can do some 5s stuff if you want." The employee responded to Mr. Busch "I was thinking 15, who should I charge the ticket to?" Mr. Busch responded to the employee "Protostudios make on and make Spencer Kuhl the requestor. Actually marry comes to more like 12. But 3 hours to shop time etc is fine."
- May 12, 2020, Mr. Busch texted an employee "No need to make a new ticket for clean up just charge to whatever project it is u are working on at the time."
- June 1, 2020, Mr. Busch texted an employee "I had someone come to me with some titanium parts to make I would like to run them through Proto studios and have you make them are you interested."
- October 14, 2020, Mr. Busch texted an employee "Hey I took a few simple Xom jobs to keep work going for u. Lmk what u think...really cake stuff btw." The employee responded to Mr. Busch "If you really want to know what I think here it is, Xom stuff as a whole is a pain if everyone in the shop had to do it then it would be allot more bearable but if you look at the work that has been through the shop in the last year and a half probably 50% of the stuff I've done has been xom which requires severe efficiency's while the salary people have done 0 xom and sat around milking out everything they could so they "don't run out of work" while the fact is they can do xom stuff to they just start crying if they have to do anything they don't want to, if you want to take advantage of the fact I've proven myself to be the most capable so I have to do xom so the full time guys don't get sand in there vaginas it's whatever just know I'm there 15 hrs a week regardless if the job is done or not." Mr. Busch responded to the employee "Dude I'm doing xom work right now...that's not an accurate statement. If you don't want to work just say so." The employee responded to Mr. Busch "Is it under your account or the schools?"

Mr. Busch responded to the employee "The schools Bro...we've discussed this. U should probably look at the jobs before freaking out...cuz they are easy. \*redacted\* and I have 0 problem doing Xometry work when it's needed. Ur first statement was not accurate. I don't control work flow. If u can find another pt job that pay 24/hr and let's u work when u want...go for it. I don't know what u want me to do. Until we start another project it's either xometry work or moving stuff or shop improvement. But we can only spend so much time on shop improvement as we don't have budget for it." ... "\*redacted\* doesn't care what he does. He just does it."

According to current and former staff that we spoke with, they stated on numerous occasions they were told by Mr. Busch to charge a maximum number of hours on a job and anything over needed to be charged to shop or training time on the RT system. For example. A former employee stated, they were told by Mr. Busch, "anything over 30 hours, I'll lose money on."

During our review of the text messages between Mr. Busch and a former employee, we also identified numerous instances of Mr. Busch trying to entice the employee to perform side work for him (Mr. Busch). Copies of selected text messages showing these conversations are included in **Appendix 16**. Examples of these test messages are included below:

- February 5, 2019, Mr. Busch texted an employee "Do you have any room in your schedule for some extra time this week I got a cash bonus situation for you".
- March 24, 2019, Mr. Busch texted an employee "Btw if u want to work long enough to get them done if possible I will make it more than worth ur time... like triple+ what u normally get. I just don't have time."
- July 22, 2019, Mr. Busch texted an employee "I do have a part u can finish tomorrow night...I will just pay the 100/hr for u to do it as it needs done and I'm outa time. This one u can get the scotch for." The employee responded with "As long as your boss is ok with it doesn't really matter to me what I do." Mr. Busch responded with, "Boss don't care as long as I pay." According to conversations we had with Mr. Busch's boss at that time of these text messages, they stated that they were not aware of Mr. Busch performing work for his personal business at the Machine Shop and that would "categorically not been allowed".
- October 26, 2019, Mr. Busch sent an employee a picture message of a bottle of Lagavulin scotch and said, "I This is ur gold at the end of the rainbow".
- December 10, 2020, Mr. Busch texted an employee "If \*redacted\* and I bought you a TM pause machine do you have a garage it could go in \*redacted\* fits his in a garage with 8 foot ceilings". The employee responded "No, I don't even have a house lol". Mr. Busch replied, "Nether does \*redacted\* but he's gat a machine in a garage. Ur missing an opportunity." The employee replied, "Thanks anyway I'll have more than enough on my plate for the next 4 or 5 years with school and the stipulations of getting into grad school". Mr. Busch replied, "Just trying to help a brother out you'd make way better money but I get it if you don't wanna make the commitment".

Based on the discussions with current and former employees and information included in the text messages we reviewed the time entries for all employees recorded in the payroll system as well as the hours recorded in the RT system.

For hourly employees, we used the time record detail report to schedule out the dates the and the number of hours worked for each day of a pay period. Using the Physics and Astronomy monthly billing spreadsheets, we added the dates the individual had hours allocated or billed per pay period, noting the date, the RT job name and number, and the number of hours billed.

We compared the total hours worked to the total hours billed per pay period. Any variances were noted by pay period and in total by individual. We also noted any instances of RT job numbers which were identified by the accounting staff as unbillable. Examples of unbillable RT jobs were things like shop time, training time, and clerical. For hourly employees, we took the schedule by pay period and combined it into a monthly schedule of total hours worked per the payroll system to total hours billed per the RT system.

For salary employees, we used the time record detail for each individual to schedule out the dates they had vacation, sick leave, or holiday pay for each month. Salaried employees are not required to track their hours worked by day. They are only required to report time off on their timesheets. We calculated the number of hours each full-time employee should have worked each month, using the standard 8 hours per day, for 5 days a week for each month. Using the Physics and Astronomy monthly billing spreadsheets, we added the dates the individual had hours allocated or billed per month, noting the date, the RT job name and number and the number of hours billed. We compared the total hours worked to the total hours billed per month. Any variances were noted by month and in total by individual. We also noted any instances of RT job numbers that were identified by the accounting staff as unbillable. Examples of unbillable RT jobs include shop time, training time, instructional time, and clerical.

Based on a comparison of the hours worked to the time recorded in the RT system, for the period September 2018 through September 2021, we identified 1,808.73 hours of unbilled time and 2,512.93 hours of unallocated time for salary employees and 496.50 hours of unbilled time and 1,282.99 hours of unallocated time for hourly employees.

According to University staff unbilled time is time charged by staff for shop time, training time, instructional time, and clerical. Unallocated time is defined as hours that were worked and paid by the University which had no RT job number associated with the time paid. According to University staff and officials we spoke with, some amounts of unallocated or unbilled time would be acceptable; however, the amounts identified, including the frequency, were not in line with the expectations established by Department officials.

Using the accept and shipped dates provided by Xometry, we compared the dates to time recorded in the RT system for the 519 jobs included in **Exhibit E**, to determine if employees could have worked on a Xometry job during the period which was recorded as unbilled or unallocated time. Based on this comparison, we determined there were sufficient hours recorded in the RT system which were unbilled or unallocated which occurred between the accept and shipped dated for the 519 Xometry jobs.

When we spoke to the former Department Administrator and showed them the amounts of unallocated and unbilled time by the Machine Shop's employees, they stated that it was reasonable that these Xometry jobs were completed during these periods of unallocated and unbilled time. As illustrated by the **Exhibit**, the remaining 519 Xometry jobs totaling \$774,742.28 are diverted revenue being paid to Mr. Busch. The \$774,742.28 is included in **Exhibit A** as improper diverted revenue.

During our procedures, we were told Mr. Busch had a shop at his personal residence. According to an individual we spoke with, who occasionally worked at Mr. Busch's personal shop, while Mr. Busch had some machines and abilities to work, Mr. Busch did not have the capabilities or the same quality of machines as the Machine Shop.

Subsequent to our procedures, the SUI Police Department issued a subpoena to Xometry to obtain all purchase orders for jobs accepted by D3T and the Machine Shop, including the job accepted and shipped dates, payment issuance date and payment method for the period October 2, 2021 through September 2, 2023. The information obtained was provided to our office for review. During our review, we identified D3T had completed 11 jobs totaling \$11,516.05 for the period October 2, 2021 through September 2, 2023. In addition, we received confirmation from a Xometry representative that this was all the activity they had on record for Mr. Busch and D3T since he was placed on paid administrative leave by the University.

#### PROCUREMENT CARD IMPROPER AND UNSUPPORTED DISBURSEMENTS

University officials have established policies and procedures regarding the use of Pcards for the entire University, including the Physics and Astronomy Department. The policies and procedures are included in the operations manual and are listed on the University's Accounts Payable and Receivable website. These policies and procedures can be accessed by all University employees. Departments are allowed to establish policies and procedures which are more restrictive, but, at a minimum, meet the University's policy.

When a University Pcard is used, the purchase is submitted through the University's "ProTrav" system. The "ProTrav" system requires the user to complete a form and electronically scan and attach supporting documentation for the charge(s). The completed form and supporting documentation are electronically routed to the cardholder's supervisor for approval and then forwarded to the Shared Services staff assigned to the Department for final review and approval. University policy requires the employee or the Department to maintain the original supporting documentation until this process is completed and the information is loaded into the University's accounting system. Pre-approvals of purchases made with Pcards are not required.

In addition to the supporting documentation submitted by the cardholder, the University receives "Level III" information as part of the data received from the Pcard processor. This information is included in the electronic procurement card transaction file the University receives daily. Level III detail includes a description of the item(s) purchased and the price. This information is only provided from vendors who collect and include the data with the information they submit to the Pcard processor. Examples of vendors who include Level III detail include Amazon, Oriental Trading Company, Pigott, American Airlines, and Delta Airlines.

Shared Services staff compare the support scanned into the accounting system by the Pcard holder to the Level III data to confirm the items purchased agree with the information scanned in by the Pcard holder. During the review process, if a Shared Services staff member identifies a concern or would like more clarification regarding a charge, they may request the original support, additional support, or clarification for the charge from the card holder.

#### Personal Purchases on University Procurement Card

As previously stated, Mr. Busch was assigned a University Pcard to make purchases for the Department's operations, including tooling and materials and to pay for conference registrations and travel arrangements. He also used the Pcard to purchase miscellaneous supplies and pay for anodizing of parts.

We obtained a list of all charges made to Pcards assigned to the Machine Shop staff for the period October 1, 2016 through September 30, 2021. Using the supporting documentation available from the Department, information obtained from selected vendors, Level III detail provided by the University, internet searches, the vendor, the frequency and amount of the payments, discussions with Department officials, and University policies, we classified payments as improper, unsupported, or reasonable.

Disbursements were classified as improper if they were personal in nature or not necessary or reasonable for operations of the Department. Disbursements were classified as unsupported if it was not possible to determine if the disbursement was related to Department operations or was personal in nature. Other disbursements were classified as reasonable if it appeared, they were for Department operations based on available supporting documentation, the vendor, frequency, and amount of the payments, and/or discussions with Department officials.

Based on the information received from the Level III data, supporting documentation maintained by the Department, and the nature of the goods and services provided by certain vendors, we identified purchases which contained items personal in nature and not appropriate for the Department operations. **Exhibit F** list the purchases made with Mr. Busch's University Pcard which included items not reasonable or necessary for the Department operations.

As illustrated by the **Exhibit**, we identified \$6,313.39 of improper purchases which included items such as, iTunes purchases, materials from suppliers that were identified as material used for D3T Xometry jobs, and convenience store purchases.

The improper Pcard purchases we identified were made with the Pcard assigned to Mr. Busch. We did not identify any improper or unsupported Pcard purchases made with the Pcard assigned to other staff within the Department. The \$6,313.39 of improper purchases identified are included on **Exhibit A**.

According to Shared Services officials we spoke to, \$6,196.48 of the improper charges identified were payroll deducted from Mr. Busch. The \$6,196.48 of payroll deductions are included on **Exhibit A** as repayments.

#### **Physics Department Shipping Account Charges**

The University has established shipping accounts for various departments with FedEx and UPS to allow for faculty and staff to ship and receive items. As part of these accounts, the University receives detailed

transaction information for each shipment, including sender name and address, recipient name and address, a Tracking number, the shipped and delivery dates, and the charge details.

As previously stated, as part of the work performed on Xometry jobs, the manufacturer had to ship the finished products to Xometry or the requesting customer as soon as the part was complete for verification to receive payment from Xometry. Due to the concerns regarding the use of University staff and resources to complete Xometry jobs on behalf of Mr. Busch and D3T, we obtained a history of the Department's FedEx and UPS shipping accounts for the period November 2018 through September 2021.

Using the supporting documentation obtained from the University, internet searches, the frequency, and discussions with Department officials and staff, we classified payments as reasonable or unsupported. Shipping costs were classified as unsupported if the shipment was made by Mr. Busch, and it was not possible to determine if the shipment was related to Department operations or was personal in nature. Shipping costs were classified as reasonable if they were for Department operations based on available supporting documentation, the vendor, frequency, and amount of the payments, and/or discussions with Department officials.

In total, we identified six FedEx charges totaling \$117.51 and one UPS charge for \$18.87 which included Mr. Busch and the Van Allen Hall address listed as the sender. Based on the shipping information, we were unable to determine the reason for the shipping charge. As a result, the \$117.51 and the \$18.87 are considered unsupported charges and included on **Exhibit A**.

#### OTHER ADMINISTRATIVE ISSUES

**RT System** – As previously stated, we obtained all RT system activity for the Machine Shop from September 2016 through December 2021 and performed an analysis and comparison of the data maintained on the system. During our review of the system, as well as discussions held with University officials and Department staff, we identified anyone with access to the RT system can create adjustments, delete jobs from the system, and create a RT job with someone other than themselves as the requestor of the job.

In addition, the majority of adjustments made were not supported by a note or explanation as to why there was an adjustment made. Furthermore, there was no independent review or approval of adjustments made to jobs on the RT system. Also, once a job is deleted on the RT system, the job disappears and only the administrator of the system can see those. During our period of the investigation, the Administrator of the Machine Shop's RT system was Mr. Busch. We also noted that there was no independent review or approval of deletions made on the system.

<u>Billable Hour Goals</u> – During discussions with Department officials and staff, we were informed the Machine Shop has a billable hour goal for the Machine Shop in total and for each individual employee. As part of our procedures, we obtained all Physics and Astronomy Service Center Logged and Billed Hours Summaries for the period June 2017 through June 2022. We identified that the Machine Shop as a Department was under the billable hour goal established by Department officials for 38 of the 60 months and for 3 of the 5 years in total.

In addition, we identified Mr. Busch was under his billable hours goal for 43 of the 51 months he was employed by the Department and for all 5 years in total. It was also noted that the other two full-time employees of the Machine Shop were under their billable hours goal for 24 of the 60 months and 35 of the 51 months, respectively, and for 2 of the 5 years and 4 of the 5 years, respectively, in total. It was noted that while these employees were under their billable hours goal and the Machine Shop in total was under their billable hours goal, there were no ramifications or changes made by Department officials.

**Protostudios Invoicing** – During our procedures, we obtained all Protostudios billings and invoices from July 2018 through September 2021. In addition, we obtained Protostudios billings and invoices

issued to Mr. Busch and D3T from October 2021 through May 2021. During our review of all Protostudios billings and invoices, we identified 25 invoices were missing invoices in the files provided by Protostudios. It was determined these invoices were not used and Protostudios does not follow a numeric sequence for their invoices. We also identified Mr. Busch was placed on paid administrative leave from the Department because of concerns identified with conflicts of interest as it related to his personal business, D3T, and Protostudios continue to perform work for Mr. Busch. Specifically, we identified Protostudios issued five invoices totaling \$1,484.66 to Mr. Busch/D3T for the period October 2021 through May 2023.

Protostudios Memberships – As previously stated, when Protostudios was established, they had a membership program for Businesses, Entrepreneurs outside of the University, as well as for University faculty and staff. There was an initial membership set up fee, followed by a monthly billing amount for access to the Protostudios lab maintained in Van Allen Hall. This program was stopped shortly around the Fall of 2018. During our review of all Protostudios billings and invoices from July 2018 through September 2021, we identified there were six individuals who had a Protostudios membership including Mr. Busch. The membership program was cancelled due to the nature of the equipment, the liability of individuals being in the Protostudios lab unsupervised and the requirement of new and ongoing training. Protostudios did offer to grandfather in all initial members of the program moving forward while not offering any new memberships. It was noted the only member which was grandfathered in was Mr. Busch, the Shop Manager.

**Machine Shop Inventory** – As previously stated, Mr. Busch was assigned a University Pcard to make purchases for the Department's operations, including tooling, materials, and miscellaneous supplies. During our review of the activity on Mr. Busch's University Pcard, we identified numerous purchases for tooling, materials, and miscellaneous supplies. However, the Department did not keep an inventory of material, tools, or supplies purchased. As a result, we were unable to determine if any of the material, tools, or supplies purchased on Mr. Busch's University Pcard were improperly purchased for his personal business.

#### **Recommended Control Procedures**

As part of our investigation, we reviewed the controls used by the University of Iowa. An important aspect of internal control is to establish procedures that provide accountability for assets susceptible to loss from errors or irregularities. These procedures provide the actions of one individual will act as a check on those of another and provide a level of assurance errors or irregularities will be noted within a reasonable time during the course of normal operations. Based on our findings and observations detailed below, the following recommendations are made to strengthen the University's internal controls.

(A) <u>Conflicts of Interest and Commitment</u> – The University requires all employees to complete Conflicts of Interest and Commitment Disclosure forms annually and to review the Conflicts of Interest and Commitment policy. The University relies on the employees' complete understanding of the policies and ethics to properly disclose all required or potential conflicts. Such reliance is not sufficient.

<u>Recommendation</u> – University officials should continue to stress employees are to report concerns related to conflicts of interest, conflicts of commitment, or other concerns to the University's Compliance hotline or the Office of Internal Audit. The University should communicate this to employees during training events and during annual employee evaluations. In addition, updated forms should continue to be signed by employees which include any revisions.

Also, University officials should be observant for indications of possible conflicts. These indications may result from, but not be limited to, information included in grant applications, information included in travel documentation, and communications or notifications from employees or affiliated organizations. University officials should also respond in a timely manner to any indication of potential conflicts.

(B) <u>Diverted Revenues</u> – We determined Brian Busch, used University equipment at the Machine Shop and University staff to complete Xometry jobs for his personal business D3signtech (D3T). Based on the information provided by Xometry, the diverted revenues totaled \$950,689.88.

<u>Recommendation</u> – University officials should ensure a review is performed of all conflict of interest and commitment forms are reviewed to identify any potential conceits. University officials should ensure decision making regarding such new work should not be made by a single individual or an individual who can use undue influence over others. In addition, all staff time recorded should be reconciled to a job performed, billed, and collected by the University. Any adjustments, deletions or unallocated, unbilled time recorded should be explained and approved by the staff's supervisor.

- (C) <u>RT System</u> We identified anyone with access to the RT system could:
  - a. create a job with their name or another staff person's name as the creator of the job,
  - b. make adjustments to the number of hours charged to a job, and
  - c. delete a job from the system.

In addition, we determined there no independent review or approval of adjustments and deletions made to jobs on the RT system and a reconciliation of hours charged to a job to the actual number of hours billed was not performed.

<u>Recommendation</u> – University officials should work with its IT professionals to create an audit trail for items which are adjusted or deleted from the system and any adjustments and deletions are approved. In addition, a reconciliation of hours charged to a job to the actual number of hours billed should be performed.

- (D) <u>Inventory</u> By their nature, inventory purchased by the Department are attractive to individuals and susceptible to loss. Based on the procedures performed, we identified the following concerns over the Department's materials, tools, and supplies:
  - 1. The Department did not maintain adequate records indicating the project and the purpose for which materials, tools and supplies were purchased.
  - 2. The Department did not maintain adequate supporting documentation showing when materials, tooling or supplies were expended and for what project.
  - 3. The Department did not maintain an inventory listing by material, tools, and supplies purchased, expended, and on hand were properly safeguarded.

<u>Recommendation</u> – Department officials should develop policies and procedures for the purchases, distribution, inventorying, safeguarding, and tracking of materials, tools, and supplies.

- An inventory of all materials, tools, and supplies should be maintained for the Machine Shop. A comparison of materials, tools, and supplies on hand should be conducted periodically and compared to the inventory listing by someone independent of the record keeping and custody functions. Any irregularities or inconsistencies identified should be investigated and resolved in a timely manner.
- An independent party should periodically compare materials, tools, and supplies purchases and expended to the inventory records. Any irregularities should be investigated and resolved in a timely manner.
- A log should be maintained of all individuals who access the materials, tools, and supplies, including dates, the reason for access, and any materials, tools, and supplies added to or removed from the inventory.

**Exhibits** 

### Report on Special Investigation of the University of Iowa Department of Physics Machine Shop

#### Summary of Findings For the Period July 1, 2017 through September 30, 2021

Exhibit/Table/ Description Page Number **Improper** Unsupported Total Diverted Revenue: D3Signtech Xometry Jobs Completed with University Staff/Resources Exhibit B \$ 173,097.60 173,097.60 D3Signtech Xometry Jobs Completed with University Staff/Resources Exhibit E 770,537.37 770,537.37 943,634.97 Subtotal of Diverted Revenue 943,634.97 Improper and unsupported disbursements: Personal purchases on University Procurement Card Exhibit F 6,313.39 6,313.39 Physics Department Shipping Account Charges Page 8 136.38 136.38 Subtotal of improper and unsupported disbursements 6,313.39 136.38 6,449.77 \$ 949,948.36 136.38 950,084.74 Total Page 19 Less: Repayment by Brian Busch to Protostudios (17,494.50)Less: Repayment by Brian Busch to SUI Page 16 (3,550.00)Less: Repayment by Brian Busch to SUI via Payroll Deduct Page 24 (6,196.48)\$ 929,040.24 Net amount

## Report on Special Investigation of the University of Iowa Department of Physics Machine Shop

#### Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

#### Per Xometry Records

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Xometry Job	Accepted Date	Shipped Date	_	Amount	Per Interview of Current and Former Staff
J0010BE9	11/12/18	12/14/18	\$	7,500.00	Miller Done at the Shop - estimated 2-3 weeks worth of work
J0010F4C	11/27/18	12/20/18		2,850.00	None
J0011025	11/28/18	12/20/18		3,150.00	None
J0011ED4	01/22/19	01/25/19		484.47	None
J0011F3B	01/22/19	01/28/19		625.00	None
J00120B0	01/27/19	03/15/19		8,900.00	<ul> <li>Miller highly doubts its for anyone upstairs based on the image he provided</li> </ul>
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#### Per RT System

Tel Ri System			
	Job Number	Hours	Notes
Busch had 2.0 hours to the Job and 90.0 hours unallocated/unbilled time. Crile had 13.5 hours to the job and 49.0 hours of unbilled time. Miller had 0.5 hours to the job and 30.75 hours of unallocated/unbilled time. Stansberry had 11.5 hours of unbilled time.	1093	16.00	None
Busch had (22.0) hours charged to job 1190 and 16.0 hours charged job 1192. Stansberry had 15.0 hours to job 1190 and 26.75 hours of unbilled time.	1190 1192	9.00	Per text from Busch to student employee "I absolutely need to ship that plat on Wednesday (sic 12/19/18).
Busch 158.0 hours of unallocated/unbilled time. Crile had 41.0 hours of unbilled time. Miller had 53.75 of unallocated/unbilled time. Stansberry had 31.75 hours of unallocated/unbilled time.	-	-	None
Busch had 42.75 hours of unallocated/unbilled time. Crile had 25.5 hours of unallocated/unbilled time. Miller had 21.0 hours of unallocated time. Stansberry had 0.30 hours of unallocated time. Pestalozzi had 40.0 of unallocated time. Amstutz had 24.30 hours of unallocated time. Helland had 10.0 hours of unallocated time. Mannien had 8.0 hours of unallocated time.	-	-	None
Protostudios job - Stansberry had 7.0 hours to the job and 5.0 hours to Protostudios training.	1338	7.00	Protostudios was billed for 7.0 hrs at a cost of \$539.00
-	-	-	Only job during this time period that was done with BLACK ABS material. No RT job number and not a university job.

## Report on Special Investigation of the University of Iowa Department of Physics Machine Shop

#### Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

#### **Per Xometry Records**

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J001218E	01/30/19	02/08/19	489.03	Crile didn't remember any Xometry jobs that were ran thorugh the RT system that were not Protostudios tickets, but he does not recall, he could have worked on them
J0012695	02/12/19	02/20/19	273.21	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J00127B9	02/14/19	02/23/19	475.00	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J0012803	02/15/19	02/15/19	600.00	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J001290D	02/18/19	02/26/19	1,100.00	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J0012A5C	02/21/19	03/13/19	5,250.00	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."

#### Per RT System

Fei Ki System			
	Job Number	Hours	Notes
Crile had 19.17 hours to the job. Stansberry had 24.83 hours to the job.	1349	44.00	None
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed.
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed.
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed.
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed.
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed.

## Report on Special Investigation of the University of Iowa Department of Physics Machine Shop

#### Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

#### **Per Xometry Records**

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J0013024	03/09/19	03/14/19	1,000.00	Stansberry some still familiar. Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J0013145	03/13/19	03/17/19	512.36	None
J001348C_1	03/21/19	04/19/19	4,392.77	None
J001351F	03/22/19	04/10/19	8,250.00	Crile "I'm surprised by it but its obviously true there, at the same token when your machining hundreds of parts, sometimes I don't know what I made 2 months ago. I just don't remember him (Brian) submitting jobs, personally to the Shop."
J001377C	03/29/19	04/17/19	1,079.58	None
J001387E	04/02/19	04/12/19	969.99	None
J0013E6E	04/19/19	05/02/19	786.52	Miller confirmed this was the same thing as the picture provided
J00143F6_1	05/03/19	05/14/19	984.00	None
J00147DC	05/14/19	05/24/19	1,885.00	Stansberry set up for Pestalozzi to finish, Stansberry completed a few parts

Per RT System

rer R1 System			
	Job Number	Hours	Notes
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed. Picture of part in texts from Busch to Student Employee and Busch states "don't make a ticket or log hours cash money (moneybag emoji) holmes.
Crile had 9.0 hours to the job.	1393	9.00	None
Stansberry had 21.70 hours to the job.	1415	21.70	None
Busch had 90.0 hours to the job over a period of 3 months. Crile had 21.0 hours to the job over a period of 1 month.	1350	111.00	* RT system had a total of 327.0 hours to the job with no explanation provided to Andrea Shaevitz as to why the full amount was not billed. Picture of part in texts from Busch to Student Employee.
Stansberry had 7.50 hours to the job.	1428	7.50	None
Busch had 8.0 hours to the job.	1433	8.00	None
Busch had 65.5 hours of unallocated/unbilled time. Crile had 81.0 hours of unallocated/unbilled time. Miller had 39.0 hours of unallocated/unbilled time. Stansberry had 3.0 hours of unbilled time. Pestalozzi had 32.0 hours of unallocated time. Amstutz had 30.5 hours of unallocated time. Mannien had 16.0 hours of unallocated time.	-	-	None
Busch had 8.0 hours to the job and 17.0 hours to unbilled time.	1517	8.00	None
Pestalozzi had 15.33 hours to the job.	1516	15.33	Picture of parts in texts between Busch and student employee. Student employee also stated he got the pockets done in the L bars and the 12 is running the R bars.

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometr <del>y</del> Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J0014B31	05/22/19	06/10/19	1,300.00	None
J001607B_1	07/08/19	07/27/19	8,600.00	Miller confirmed this appears to be the same thing as the picture provided
J0016595	07/18/19	07/25/19	1,300.24	None
J001663B	07/19/19	07/30/19	1,102.63	Stansberry completed

Ter Kr bystem			
	Job Number	Hours	Notes
Stansberry had 36.5 hours to the job.	1532	36.50	None
Protostudios job - Requestor was D3Signtech. Stansberry had 4.0 hours to job 1639 and 11.5 hours to job 1641. Xometry Spec Drawings included on the RT system as an attachment.	1639 1641	15.50	Protostudios was billed for 4.0 hrs at a cost of \$308.00 - D3signtech was billed by ProtoStudios for \$354.20. Busch sent a text to a student employee of a picture of a trash can full of metal shavings with shavings piled up on the floor around it. The text included "That's about 1/8 of the shit I've made this weekend. Bags and Bags of Chips." <i>This could be a job that was completed the weekend of 07/19/19 to 07/21/19.</i>
Busch had 101.0 hours of unallocated/unbilled time.	-	-	Busch sent a text to a student employee of a picture of a trash can full of metal shavings with shavings piled up on the floor around it. The text included "That's about 1/8 of the shit I've made this weekend. Bags and Bags of Chips." This could be a job that was completed the weekend of 07/19/19 to 07/21/19.
Protostudios job - Stansberry had 16.0 hours to the job.	1638	16.00	Protostudios was billed for 16.0 hrs at a cost of \$1,232.00 - D3signtech was billed by ProtoStudios for \$1,416.80. Picture of parts in texts between Busch and student employee. Busch also states "I'll make job ticket and put files in it for u. Will bill this through protostudiosthrow Spencer a bone"

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xomet: Job	ry Accepte Date		Amount	Per Interview of Current and Former Staff
J00166	B3 07/20/	19 07/25/19	492.41	None
J00169	EB 07/25/	19 08/05/19	750.00	None
J00169 <sup>6</sup>	9C -	-	2,675.00	^ None
J0016A	B6 07/29/	19 08/07/19	2,461.65	None
J0016D	ED 08/03/	19 08/12/19	750.00	Miller confirmed this was the same thing as the blueprint located
J0016E	88 08/05/	19 08/14/19	2,850.00	None
J00180	30 09/09/	19 09/25/19	5,250.00	Stansberry 1 part seems familiar

Per RT System			
	Job Number	Hours	Notes
Busch had 101.0 hours of unallocated/unbilled time.	-	-	Busch sent a text to a student employee of a picture of a trash can full of metal shavings with shavings piled up on the floor around it. The text included "That's about 1/8 of the shit I've made this weekend. Bags and Bags of Chips." This could be a job that was completed the weekend of 07/19/19 to 07/21/19.
Protostudios job - Stansberry had 13.0 hours to the job. Xometry Spec Drawings included on the RT system as an attachment.	1662	13.00	Protostudios was billed a fixed price of \$400.00 - D3signtech was billed by ProtoStudios for \$460.00
Protostudios job - Stansberry had 21.5 hours to the job.	1646	21.50	Protostudios was billed for 21.5 hrs at a cost of \$1,655.50 - D3signtech was billed by ProtoStudios for \$1,903.83. In Texts between Busch and a student employee, the student asks what the next job is and Busch responds with Heat Sinks.
Protostudios job - Pestaloozi had 7.50 hours to the job.	1660	7.50	Protostudios was billed for 7.5 hrs at a cost of \$577.50
<del>-</del>	-	-	Picture of part in texts between Busch and a student employee. Student employee was sending a picture of the completed part to Busch for inspection prior to shipping.
Protostudios job - Pestaloozi had 9.0 hours to the job.	1674	9.00	Protostudios was billed a fixed price of \$600.00 - D3signtech was billed by ProtoStudios for \$690.00
Protostudios job - Stansberry had 13.5 hours to the job.	1752	13.50	Protostudios was billed for 13.5 hrs at a cost of \$1,053.00 - D3signtech was billed by ProtoStudios for \$1,210.95

Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

## **Per Xometry Records**

Xometry Job	Accepted	Shipped	<b>A</b>	Des Vertice de la Comment de la Deserve Com
J00	Date	Date	Amount	Per Interview of Current and Former Staff
J0018FD2	10/02/19	10/22/19	3,250.00	Stansberry completed the plate

J0019434 10/09/19 10/18/19 1,875.00 None

Per RT System			
	Job Number	Hours	Notes
Protostudios job - Stansberry had 12.0 hours to the job. Xometry Spec Drawings included on the RT system as an attachment.	1792	12.00	Protostudios was billed for 12.0 hrs at a cost of \$936.00 - D3signtech was billed by Protostudios for \$1,076.40. In texts between Busch and a student employee, Busch asks the employee if he is working this weekend, the employee confirms, and Busch responds with "I put the job in ur queue please limit charged hours to 12. I can't imagine u would have more actual **Redacted** time in themmachine run time I'm sure u will. The employee responds with ok and asks if he were to work 18 hrs this weekend what should I put the other 6 hrs towards? Busch Responds with "Shop time just do some cleaning and organizing while things are running. Point I am trying to make is I don't super care as long as things get done and we can charge 80 percent of ur time weekly". Pic of Part is also included.
Protostudios job - Stansberry had 10.0 hours to the job. Xometry Spec Drawings included on the RT system as an attachment.	1797	10.00	Protostudios was billed for 10.0 hrs at a cost of \$780.00 - D3signtech was billed by Protostudios for \$897.00. In Text messages between Busch and a student employee. <i>Employee</i> to Busch "How many hours should I put on this job?", Busch responds with 10. Employee confirms.

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

	- 1	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••	
Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J001949D	10/11/19	11/08/19	4,250.00	Stansberry looks familiar. Miller confirmed this was the same thing as the picture provided.
J00196AB	10/14/19	10/22/19	3,500.00	None
J0019C3F	10/23/19	11/07/19	1,412.59	None

Fer Ki System			
	Job Number	Hours	Notes
Busch had 64.5 hours of unallocated/unbilled time. Crile had 39.8 hours of unallocated/unbilled time.	-	-	None
Protostudios job - Stansberry had 12.0 hours to the job.	1809	12.00	RT job name "Protostudios Ball Parts". Picture of part in text messages between Busch and a student employee. The employee asked Busch if there was anything he could work on for 5 hrs tomorrow evening, Busch responded with yes and provided a picture of this part. After a picture of the completed parts was sent by the employee to Busch, the employee asked if there was a ticket for this job. Busch responded with "sorry no just make on call protostudios ball parts".
Protostudios job - Stansberry had 8.0 hours to the job.	1829	8.00	RT job name "fiberglass disks qty 4". Per the purchase order and drwaings this was for 4 garolite disks. Garolite is fiberglass. Protostudios was billed for 8.0 hrs at a cost of \$624.00 - D3signtech was billed by Protostudios for \$624.00. In texts between Busch and a student employee, Busch "How many **REDACTED** hours you suppose?". The employee responds with "It'll probably take about 8 hours to do those fiber glass things and I was planning on working 12 hours total".

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J001A3BB	11/05/19	11/12/19	1,400.00	Stansberry completed 2 of the parts - maybe 6 to 10 hours of his time
J001A377	11/06/19	11/23/19	4,250.00	None
J001A4A4	11/08/19	11/12/19	1,550.00	Stansberry completed - maybe 5 to 10 hours of his time
J001A88B	11/14/19	12/23/19	9,750.00	<ul> <li>Stansberry "Sore Subject, straw that broke the camels back", was told 100 hours max and to charge anything over that to shop/training time.</li> </ul>
J001B2BB	12/04/19	12/11/19	1,600.00	None

	Job Number	Hours	Notes
Protostudios job - Stansberry had 17.0 hours to the job, however these hours were deleted and moved to job 1841.	1840	-	Protostudios was billed for 36.0.0 hrs at a cost of \$2,808.00 - D3signtech was billed by Protostudios for \$3,229.20. Picture of part in texts between Busch and a student employee.
Protostudios job - Busch had 16.0 hours to the job and Stansberry had 20.0 hours to the job.	1841	36.00	Protostudios was billed for 36.0.0 hrs at a cost of \$2,808.00 - D3signtech was billed by Protostudios for \$3,229.20. Picture of part in texts between Busch and a student employee.
-	-	-	Picture of part in texts between Busch and a student employee. Stansberry did not have time to a job that this could be for, but did have 25.0 hours of unallocated time during the time period of this job.
Protostudios job - Stansberry had 100.0 hours to the job and 25.0 hours to unbilled time.	1848	100.00	Protostudios was billed for 100.0 hrs at a cost of \$7,800.00 - D3signtech was billed by Protostudios for \$4,574.70. In texts between Busch and a student employee.
Busch had 79.0 hours of unallocated/unbilled time. Crile had 25.5 hours of unallocated/unbilled time. Stansberry had 11.0 hours of unallocated/unbilled time. Pestalozzi had 32.50 hours of unallocated/unbilled time. McGonagle had 12.0 hours of unallocated time.	-	-	None

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J002055B	04/23/20	04/28/20	1,200.00	None
J00213A6	05/16/20	05/18/20	1,200.00	Stansberry looks familiar, he did not work on it, but remembers seeing it in the shop
J0021B47	06/01/20	06/23/20	7,000.00	None
J0028281	10/20/20	10/29/20	6,600.00	Crile "I remember doing 1 for Protostudios, it was a long piece of Delrin, there might have been another one, but I don't recall. Long parts, required bushings in it, and they were messed up and the job failed."
J0028281_1	10/20/20	10/29/20	-	Crile "I remember doing 1 for Protostudios, it was a long piece of Delrin, there might have been another one, but I don't recall. Long parts, required bushings in it, and they were messed up and the job failed."

Fer K1 System			
	Job Number	Hours	Notes
		-	Miller found a McMaster-Carr packing list dated 04/20/20 with copper as the material being purchased shipped to Busch's personal residence, during our review of Busch's SUI pcard we were able to tie the purchase to his Pcard. Additionally, this is the only copper part created for Xometry during the time period of this purchase. Because the material was purchased with the SUI p-card, shipped to his home, was the only copper part created and the packing slip was located in the shop, this job is considered to have been done at the Shop.
Busch had 113.0 hours of unallocated/unbilled time. Crile had 105.7 hours of unallocated/unbilled time.	-	-	None
-	-	-	Picture of Part in text messages between Busch and a student employee.
Protostudios job - Crile had 20.0 hours to the job.	2369	20.00	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00 - D3signtech was billed by Protostudios for \$1,794.00.
Protostudios job - Crile had 20.0 hours to the job.	2369	20.00	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00 - D3signtech was billed by Protostudios for \$1,794.00.

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J0028281_2	10/20/20	10/29/20	4,422.00	Crile "I remember doing 1 for Protostudios, it was a long piece of Delrin, there might have been another one, but I don't recall. Long parts, required bushings in it, and they were messed up and the job failed."
J002964F	11/10/20	11/12/20	700.00	None
J0029650	11/10/20	11/16/20	300.00	None
J0029659	11/10/20	11/18/20	350.00	None
J002978B	11/11/20	11/17/20	500.00	None
J002979C	11/11/20	11/17/20	600.00	None
J0029D31	11/18/20	12/04/20	1,500.00	None

Per RT System

Tel Ki bystem			
	Job Number	Hours	Notes
Protostudios job - Crile had 20.0 hours to the job.	2369	20.00	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00 - D3signtech was billed by Protostudios for \$1,794.00.
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Protostudios job - Pestalozzi had 13.0 hours to the job. Busch had an adjustment of (5.0) hours to the job.	2415	8.00	Protostudios was billed for 8.0 hrs at a cost of \$624.00.

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J0029D31_1	11/18/20	12/04/20	1,900.00	None
J002A179	11/22/20	12/02/20	1,400.00	None
J002A4FE	11/25/20	12/23/20	14,000.00	None
J002B2E8	12/11/20	12/15/20	3,200.00	Stansberry completed this, "anything over 30 hours, I'll lose money on"
J002BAED	12/21/20	01/05/21	199.15	None
J002C22B	01/03/21	01/15/21	2,500.00	None
J002C2E7	01/04/21	01/07/21	2,400.00	None

Tel Ki System			
	Job Number	Hours	Notes
Protostudios job - Pestalozzi had 13.0 hours to the job. Busch had an adjustment of (5.0) hours to the job.	2415	8.00	Protostudios was billed for 8.0 hrs at a cost of \$624.00.
Protostudios job - Pestalozzi had 12.0 hours to the job.	2418	12.00	Protostudios was billed for 12.0 hrs at a cost of \$936.00
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Protostudios job - Stansberry had 30.0 hours to the job and 5.0 hours to unbilled time.	2451	30.00	Protostudios was billed for 30.0 hrs at a cost of \$2,340.00. Picture of Part in text messages between Busch and a student employee.
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None

## Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

Xometry Job	Accepted Date	Shipped Date	Amount	Per Interview of Current and Former Staff
J002D430	01/23/21	01/28/21	4,500.00	None
J002DE53	02/03/21	02/12/21	500.00	None
J002DE53_1	02/03/21	02/12/21	500.00	None
J002DE52	02/03/21	02/18/21	1,400.00	Miller confirmed these are for sure the same thing as the pictures provided, additionally have pictures of the files from a University hard drive
J002DE52_1	02/03/21	02/18/21	1,400.00	Miller confirmed these are for sure the same thing as the pictures provided, additionally have pictures of the files from a University hard drive

Per RT System

	Job			
	Number	Hours		Notes
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None	
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None	
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None	
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None	
Busch had 49.33 hours to the job and 88.0 hours of unallocated/unbilled time for a period of 3 months. Crile had 38.5 hours of unallocated/unbilled hours. There was also an adjustment of 2.0 hours on the RT system reducing the total hours of the RT system	2352	49.33	* None	

Diverted Revenues Matched to Xomerty Jobs For the Period July 1, 2017 through September 30, 2021

#### **Per Xometry Records**

Xometry Job	Accepted Date	Shipped Date	Amount		Per Interview of Current and Former Staff
J0035D91	05/19/21	05/25/21	2,900.00	None	
Total			\$ 173,097.60		

NOTE: Auditor's notations are italics.

- ^ Accepted and Shipped Dates not provided by Xometry, but based on purchase order date, it is properly placed in choronlogical order.
- \* Individual had more hours allocated to jobs in the month than hours worked. These can be explained by timing issues of jobs being billed and/or machine time properly being billed by the individual.
- ~ Amount paid was less than the amount listed on the Purchase Order due to credits/advances applied per Xometry's payment records.

	Job Number	Hours	Notes
Protostudios job - Busch had 8.0 hours to the job.	2751	8.00	The RT name of the job was Protostudios G10 part (Charge This). G10 is garolite which is the material used for this job. Protostudios was billed for 8.0 hrs at a cost of \$624.00 - D3signtech was billed by ProtoStudios for \$624.00.

### Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

Per RT System

Job

1662

13.00

**Per Xometry Records** 

08/05/19

J00169EB

07/25/19

Xometry Accepted Shipped Date Number Job Date Amount Hours 625.00 Protostudios job - Stansberry had 7.0 hours to the job and 5.0 hours 1338 7.00 ~ J0011F3B 01/22/19 01/28/19 to Protostudios training. RT job created by Busch. J001607B\_1 07/08/19 07/27/19 8,600.00 Protostudios job - Requestor was D3Signtech. Stansberry had 4.0 1639 1641 15.50 hours to job 1639 and 11.5 hours to job 1641. RT job 1639 created by Stansberry and RT job 1641 created by Busch. Xometry Spec Drawings included on the RT system as an attachment. J001663B 07/19/19 07/30/19 1,102.63 Protostudios job - Stansberry had 16.0 hours to the job. RT job 1638 16.00 created by Stansberry.

system as an attachment.

Protostudios job - Stansberry had 13.0 hours to the job. RT job

created by Busch. Xometry Spec Drawings included on the RT

750.00

			Per	Protostu	idios invoices				
Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
									Protostudios was billed for 7.0 hrs at a cost of \$539.00
1207	09/23/19	10/23/19	Brian Busch D3signTech LLC	Net 30	Outsource machining services CIB_BOX and puck (RT 1639)	\$ 308.00	1.00	\$ 308.00	Protostudios was billed for 4.0 hrs at a cost of \$308.00. Busch sent a text to a student employee of a picture of a trash can full of metal shavings with shavings piled up on the floor around it. The text included "That's about 1/8 of the shit I've made this weekend. Bags and Bags of Chips." <i>This could be a job that was completed the weekend of 07/19/19 to 07/21/19.</i>
					Protostudios Service Fee (15%)	308.00	0.15	46.20	
1178	05/21/19	06/20/19	Brian Busch D3signTech LLC	Net 30	Outsource Machining services	1,232.00	1.00	354.20 1,232.00	Protostudios was billed for 16.0 hrs at a cost of \$1,232.00. Picture of parts in texts between Busch and student employee. Busch also states "I'll make job ticket and put files in it for u. Will bill this through protostudiosthrow Spencer a bone"
					Protostudios Service Fee for protostudios members	1,232.00	0.15	184.80 1,416.80	protostudiostinow openeer a bone
1210	09/23/19	10/23/19	Brian Busch D3signTech LLC	Net 30	Outsource Web Plate	400.00	1.00	400.00	Protostudios was billed a fixed price of \$400.00
					Protostudios Service Fee	400.00	0.15	60.00 460.00	

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

Per Xometry Records Per RT System

	- 1	ci Admetry Recoi	us	Tei Ki System		
Xometry Job	Accepted Date	Shipped Date	Amount		Job Number	Hours
J001699C	-	-	2,675.00	Protostudios job - Stansberry had 21.5 hours to the job. RT job created by Stansberry.	1646	21.50
J0016AB6	07/29/19	08/07/19	2,461.65	Protostudios job - Pestaloozi had 7.50 hours to the job. RT job created by Busch.	1660	7.50 ~
J0016E88	08/05/19	08/14/19	2,850.00	Protostudios job - Pestaloozi had 9.0 hours to the job. RT job created by Busch.	1674	9.00
J0018030	09/09/19	09/25/19	5,250.00	Protostudios job - Stansberry had 13.5 hours to the job. RT job created by Stansberry.	1752	13.50

Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
1208	09/23/19	10/23/19	Brian Busch D3signTech LLC	Net 30	Outsource Machining for Heat Sink	1,655.50	1.00	1,655.50	Protostudios was billed for 21.5 hrs at a cost of \$1,655.50. In Texts between Busch and a student employee, the student asks what the next job is and Busch responds with Heat Sinks.
					Protostudios Service Fee (15%)	1,655.50	0.15	248.33 1,903.83	
									Protostudios was billed for 7.5 hrs at a cost of \$577.50
1209	09/23/19	10/23/19	Brian Busch D3signTech LLC	Net 30	Outsource Machining services 2 Ti-Parts	600.00	1.00	600.00	Protostudios was billed a fixed price of \$600.00.
					Protostudios Service Fee (15%)	600.00	0.15	90.00	
					,		-	690.00	
1240	11/01/19	12/01/19	Brian Busch D3signTech LLC	Net 30	Services 11/01/2019 Machining Services / Spencer Kuhl: 1752 Calibration Plate 2 pcs MIC- 6-September 2019	1,053.00	1.00	1,053.00	Protostudios was billed for 13.5 hrs at a cost of \$1,053.00.
					Protostudios Service Fee (15%)	1,053.00	0.15	157.95	
							_	1,210.95	

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

	Pe	er Xometry Recor	ds	Per RT System					
Xometry Job	Accepted Date	Shipped Date	Amount		Job Number	Hours			
J0018FD2	10/02/19	10/22/19	3,250.00	Protostudios job - Stansberry had 12.0 hours to the job. RT job created by Busch. Xometry Spec Drawings included on the RT system as an attachment.	1792	12.00			
J0019434	10/09/19	10/18/19	1,875.00	Protostudios job - Stansberry had 10.0 hours to the job. RT job created by Busch. Xometry Spec Drawings included on the RT system as an attachment.	1797	10.00			

					uios invoices				
Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
1252	11/08/19	12/08/19	Brian Busch D3signTech LLC	Net 30	Product [ExGen] Machining Services 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag 10/10/19	936.00	1.00	936.00	Protostudios was billed for 12.0 hrs at a cost of \$936.00. In texts between Busch and a student employee, Busch asks the employee if he is working this weekend, the employee confirms, and Busch responds with "I put the job in ur queue please limit charged hours to 12. I can't imagine u would have more actual **Redacted** time in themmachine run time I'm sure u will. The employee responds with ok and asks if he were to work 18 hrs this weekend what should I put the other 6 hrs towards? Busch Responds with "Shop time just do some cleaning and organizing while things are running. Point I am trying to make is I don't super care as long as things get done and we can charge 80 percent of ur time weekly". Pic of Part is also included.
					Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer KuhI: 1792 (3) Plates anodize, bag & tag - 10/10/19	936.00	0.15	8.00	
					Product [ExGen] Machining Services - 11/08/2019 Machining Services / Spencer KuhI: 1797 (3) Plates anodize, bag & tag - 10/15/19	780.00	1.00	780.00	Protostudios was billed for 10.0 hrs at a cost of \$780.00. In Text messages between Busch and a student employee. <i>Employee</i> to Busch "How many hours should I put on this job?", Busch responds with 10. Employee confirms.

# Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

	Pe	er Xometry Recor	ds	Per RT System						
Xometry	Accepted	Shipped			Job					
Job	Date	Date	Amount		Number	Hours				
J00196AB	10/14/19	10/22/19	3,500.00	Protostudios job - Stansberry had 12.0 hours to the job. RT job	1809	12.00				
000190AD	10/14/19	10/22/19	3,300.00	created by Stansberry.	1009	12.00				

Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
					Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 (3) Plates anodize, bag & tag - 10/15/19	780.00	0.15	117.00	Notes
					Product [ExGen] Machining Services - 11/08/20 19 Machining Services / Spencer KuhI: 1809 ProtoStudios ball parts - 10/27/19	936.00	1.00	936.00	RT job name "Protostudios Ball Parts". Picture of part in text messages between Busch and a student employee. The employee asked Busch if there was anything he could work on for 5 hrs tomorrow evening, Busch responded with yes and provided a picture of this part. After a picture of the completed parts was sent by the employee to Busch, the employee asked if there was a ticket for this job. Busch responded with "sorry no just make on call protostudios ball parts".
					Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 Machining Services / Spencer KuhI: 1809 - ProtoStudios ball parts - 10/27/19	936.00	0.15	2,917.40	

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

	Pe	er Xometry Recor	ds	Per RT System						
Xometry Job	Accepted Date	Shipped Date	Amount		Job Number	Hours				
J0019C3F	10/23/19	11/07/19	1,412.59	Protostudios job - Stansberry had 8.0 hours to the job. RT job created by Stansberry.	1829	8.00				
J001A3BB	11/05/19	11/12/19	1,400.00	Protostudios job - Stansberry had 17.0 hours to the job, however these hours were deleted and moved to job 1841. RT job 1840 created by Stansberry.	1840	-				
J001A377	11/06/19	11/23/19	4,250.00	Protostudios job - Busch had 16.0 hours to the job and Stansberry	1841	36.00				

had 20.0 hours to the job. RT job 1841 created by Busch.

Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
1286	01/31/20	03/01/20	Brian Busch D3signTech LLC	Net 30	Product [ExGen] Machining Services - 12/20/2019 - Machining Services / Spencer Kuhl: [ExGen] Machining Services - 11/03/2019 - Machining Services / Spencer Kuhl: 1829 fiberglass disks qty4	624.00	1.00	624.00	RT job name "fiberglass disks qty 4". Per the purchase order and drwaings this was for 4 garolite disks. Garolite is fiberglass. Protostudios was billed for 8.0 hrs at a cost of \$624.00. In texts between Busch and a student employee, Busch "How many **REDACTED** hours you suppose?". The employee responds with "It'll probably take about 8 hours to do those fiber glass things and I was planning on working 12 hours total".
								624.00	
									Protostudios was billed for 36.0.0 hrs at a cost of \$2,808.00 - D3signtech was billed by Protostudios for \$3,229.20. Picture of part in texts between Busch and a student employee.
1255	11/25/19	12/25/19	Brian Busch D3signTech LLC	Net 30	Product [ExGen] Machining Services - 11/25/2019 - Machining Services / Spencer Kuhl: 1841 - ProtoStudios Parts - 11/11/19 - including: 012801C_r_drawing_d_0_r_ 0qty3, 012800C_r_drawing_d_0_r_ 0qty1, transreceiver qty1, Mirror swing	2,808.00	1.00	2,808.00	Protostudios was billed for 36.0.0 hrs at a cost of \$2,808.00. Picture of part in texts between Busch and a student employee.

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

Per RT System

1848

100.00

**Per Xometry Records** 

12/23/19

J001A88B

11/14/19

Xometry	Accepted	Shipped			Job	
Job	Date	Date	Amount		Number	Hours

9,750.00 # Protostudios job - Stansberry had 100.0 hours to the job and 25.0

hours to unbilled time. RT job created by Busch.

					autos invoices				
Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
					Protostudios Service Fee (15%) Protostudios service fee (15%) [ExGen] Machining Services - 11/25/2019 - Machining Services / Spencer Kuhl: 1841 - ProtoStudios Parts - 11/11/19 - including: 012801C_r_drawing_d_O_r_ Oqty3, 012800C_r_draviing_d_0_r_ Oqty1, transreceiver qty1, Mirror swing	2,808.00	0.15	421.20	
					Product (ExGenl Machining Services - 11/29/2019 - Machining Services / Spencer Kuhl: 1819 - (10 pcs) drain valve - 10/28/19	936.00	1.00	936.00	
					Protostudios Service Fee (15%) Protostudios service fee (15%) [ExGen] Machining Services - 11/29/2019 - Machining Services / Spencer Kuhl: 1819 - (10 pcs) drain valve - 10/28/19	936.00	0.15	4,305.60	
1303	03/03/20	04/02/20	Brian Busch D3signTech LLC	Net 30	Product {ExGen} Machining Services 02/04/2020 Protostudios Membership / Spencer Kuhl: Protostudios Membership Protostudios membership from 12/13/19 3/13/19	75.00	3.00	225.00	Protostudios was billed for 100.0 hrs at a cost of \$7,800.00. In texts between Busch and a student employee.

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

	Pe	r Xometry Recor	ds	Per RT System		
Xometry Job	Accepted Date	Shipped Date	Amount		Job Number	Hours
J0028281	10/20/20	10/29/20	6,600.00	Protostudios job - Crile had 20.0 hours to the job. RT job created by Crile.	2369	20.00
J0028281_1	10/20/20	10/29/20	-	Protostudios job - Crile had 20.0 hours to the job. RT job created by Crile.	2369	20.00
J0028281_2	10/20/20	10/29/20	4,422.00	Protostudios job - Crile had 20.0 hours to the job. RT job created by Crile.	2369	20.00
J0029D31	11/18/20	12/04/20	1,500.00	Protostudios job - Pestalozzi had 13.0 hours to the job. Busch had an adjustment of (5.0) hours to the job. RT job created by Busch.	2415	8.00 ~

Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
					Product [ExGen] Machining Services 02/28/2020 Machining Services / Spencer Kuhl: 1848 Large Monolithic Structure	3,978.00	1.00	3,978.00	
					Protostudios Service Fee (15%)	3,978.00	0.15	596.70 4,799.70	
1401	12/16/20	01/15/21	Brian Busch D3signTech LLC	Net 30	Service [ExGen] Machining Services - 11/23/2020 - Water Jetting / Dean Farwell: [11:00am 11:20am] Cut 10 brackets out of stainless	75.00	0.50	37.50	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00.
					Service [ExGen] Machining Services - 11/23/2020 - Laser Cutting / Dean Farwell: [12:00pm - 1:00pm] Annealed Part numbers onto 10 Stainless Steel Brackets	75.00	1.00	75.00	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00.
					Product [ExGen] Machining Services - 11/04/2020 - Machining Services / Spencer KuhI: 2369 Protostudios Delrin Parts	1,560.00	1.00	1,560.00	Protostudios was billed for 20.0 hrs at a cost of \$1,560.00.
					Protostudios Service Fee (15%) Service fee for machining services	1,560.00	0.15	234.00	
							•	1,906.50	Protostudios was billed for 8.0 hrs at a cost of \$624.00.

## Diverted Revenue Through Protostudios For the Period July 1, 2017 through September 30, 2021

Per Xometry Records Per RT System

	- '	of Moniculy Recoi	us	Tel Ki System		
Xometry Job	Accepted Date	Shipped Date	Amount		Job Number	Hours
J0029D31_1	11/18/20	12/04/20	1,900.00	Protostudios job - Pestalozzi had 13.0 hours to the job. Busch had an adjustment of (5.0) hours to the job. RT job created by Busch.	2415	8.00
J002A179	11/22/20	12/02/20	1,400.00	Protostudios job - Pestalozzi had 12.0 hours to the job. RT job created by Stansberry.	2418	12.00
J002B2E8	12/11/20	12/15/20	3,200.00	Protostudios job - Stansberry had 30.0 hours to the job and 5.0 hours to unbilled time. RT job created by Stansberry.	2451	30.00
J0035D91	05/19/21	05/25/21	2,900.00	Protostudios job - Busch had 8.0 hours to the job. RT job created by Busch.	2751	8.00
Total			\$ 71,673.87			

NOTE: Auditor's notations are italics.

<sup>^ -</sup> Accepted and Shipped Dates not provided by Xometry, but based on purchase order date, it is properly placed in choronlogical order.

<sup>~ -</sup> Job was noted as a Protostudios Job on the RT system, however, it was not billed to Brian Busch/D3signtech.

<sup># -</sup> Amount paid was less than the amount listed on the Purchase Order due to credits/advances applied per Xometry's payment records.

			1 01		aros mvorces				
Invoice Number	Invoice Date	Due Date	Bill To	Terms	Activity	Rate	Qty	Amount	Notes
									Protostudios was billed for 8.0 hrs at a cost of \$624.00.
									Protostudios was billed for 12.0 hrs at a cost of \$936.00
									Protostudios was billed for 30.0 hrs at a cost of \$2,340.00. Picture of Part in text messages between Busch and a student employee.
1510	06/09/21	07/09/21	Brian Busch D3signTech LLC	Net 30	Product [ExGen] Machining Services - 05/12/2021 - Machining Services / Spencer KuhI: 2751 Protostudios G10 Part	624.00	1.00	624.00 624.00 \$ 21,212.98	The RT name of the job was Protostudios G10 part (Charge This). G10 is garolite which is the material used for this job. Protostudios was billed for 8.0 hrs at a cost of \$624.00.

#### Payments from Brian Busch to Protostudios For the Period July 1, 2017 through September 30, 2021

Check	Check	_		Check	
Date	Number	Payee	Description	Memo	Amount
12/14/18	100	Protostudios	-	Membership	\$ 225.00
06/12/19	1158	Protostudios	-	1160/1178/1174	2,261.65
11/05/19	1190	Protostudios	-	Rent Payments	3,408.03
01/30/20	1997	Protostudios	-	Labor	4,259.85
12/04/19	1944	Protostudios	-	Labor	4,305.60
06/16/20	2008	Protostudios	-	Invoice# 128621303	5,423.00
08/24/21	##	##	Bill Pay Protostudios on-Line Xxxxxntech 08-24	1350	125.50
12/23/20	##	##	Bill Pay Protostudios on-Line Xxxxxntech 12-23	1361	75.00
12/23/20	##	##	Bill Pay Protostudios on-Line Xxxxxntech 12-23	Invoice 1379	112.50
12/23/20	##	##	Bill Pay Protostudios on-Line Xxxxxntech 12-23	1401	1,906.50
07/15/21	##	##	Bill Pay Protostudios on-Line Xxxxxntech 07-15	Invoice 1475	75.00
07/15/21	##	##	Bill Pay Protostudios on-Line Xxxxxntech 07-15	Invoice 1490	877.07
07/15/21	##	##	Bill Pay Protostudios on-Line Xxxxxntech 07-15	Invoice 1510	624.00
Total					\$23,678.70

<sup>## -</sup> The disbursement was a withdrawal from the City's bank account. The date of the withdrawal is shown rather than a check date.

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0010F98	11/26/18	01/10/19	4,250.00	
Subtotal			4,250.00	November 2018
J00113FE	12/11/18	12/24/18	1,250.00	•
J0011573_1	12/16/18	12/24/18	625.00	
J001175E_2	12/24/18	01/02/19	565.00	
Subtotal			2,440.00	December 2018
J0011A57	01/08/19	01/18/19	1,450.00	•
J0011BAE	01/11/19	01/15/19	525.00	
J0011FAC	01/23/19	02/11/19	4,250.00	
J001200B	-	-	914.32	^
J0011FE1	01/25/19	01/30/19	275.00	
J0012128	01/29/19	02/05/19	709.02	
J0012230	01/30/19	02/01/19	375.00	
J00121C6	01/30/19	02/05/19	604.35	
Subtotal			9,102.69	January 2019
-	-	-	-	February 2019
-	-	-	-	March 2019
J0014073	04/24/19	05/13/19	2,000.00	
Subtotal			2,000.00	April 2019
J0014CB8	05/25/19	06/15/19	518.93	•
J0014C54	05/28/19	06/17/19	765.00	
J0014CFB	05/28/19	06/18/19	1,250.00	
Subtotal			2,533.93	May 2019
J0015400	06/11/19	06/23/19	799.49	
J001568F	06/17/19	06/18/19	502.00	
J0015A0B	06/21/19	07/05/19	950.00	
J0015A2A	06/24/19	07/09/19	500.00	
J0015A6E	06/25/19	06/30/19	647.50	
Subtotal			3,398.99	June 2019

Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0015E85	07/02/19	07/10/19	436.03	
J00160F6	07/09/19	07/15/19	525.00	
J001616F	07/10/19	07/17/19	825.00	
J0016271	07/12/19	07/17/19	375.00	
J00162BD	07/12/19	07/18/19	425.00	
J00164EF	07/18/19	07/25/19	800.00	
J0016B68	07/30/19	08/13/19	2,275.00	
J0016BE7	-	-	1,600.00	^
Subtotal			7,261.03	- July 2019
J0016FE8	08/07/19	08/15/19	2,000.00	
J0016FE5	08/08/19	08/23/19	615.86	
J0016FE6	08/09/19	08/19/19	1,525.00	
J0017457	08/16/19	08/30/19	172.37	#
J0017759	08/22/19	08/29/19	750.00	
J00177CB	08/23/19	09/11/19	825.00	
J00177BC	08/23/19	09/20/19	4,250.00	
J00178FB	08/26/19	09/03/19	1,152.80	
J0017A72	08/28/19	09/09/19	503.62	
J0017B78	08/30/19	09/05/19	3,250.00	
J0017BE4	08/30/19	09/09/19	1,088.97	#
Subtotal			16,133.62	August 2019
J0017E6D	09/05/19	09/10/19	1,250.00	
J0017F00	09/09/19	09/20/19	1,275.00	
J001828D	09/12/19	09/27/19	6,221.18	
J00182DB	09/13/19	09/20/19	3,250.00	
J00184B8	09/17/19	10/11/19	6,750.00	
J0018BC4	09/23/19	09/30/19	2,625.00	
J0018E2C	09/27/19	10/08/19	2,875.00	
Subtotal			24,246.18	September 2019

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	_	Month
J0018FD1	10/01/19	10/09/19	1,875.00		
J001919F	10/04/19	10/09/19	375.00		
J00191AB	10/04/19	10/12/19	530.66		
J00193EE	10/09/19	10/18/19	2,053.79		
J001946A	10/10/19	10/18/19	666.50	!	
J00195CE_2	10/11/19	11/06/19	1,100.00		
J0019A00	10/18/19	10/24/19	500.00		
J0019B8B	-	-	800.00	^	
J0019DE1	10/25/19	11/09/19	1,250.00		
J0019EF4	10/30/19	11/07/19	2,392.25		
Subtotal			11,543.20	•	October 2019
J001A24E	11/01/19	11/07/19	456.04		
J001A544	11/08/19	11/19/19	2,250.00		
J001A95A	11/15/19	11/27/19	750.00		
J001AAF6	11/18/19	11/27/19	3,000.00		
J001AA06	11/19/19	12/03/19	2,575.00		
J001AB68	11/21/19	12/03/19	2,750.00		
Subtotal			11,781.04	•	November 2019
J001B179	12/03/19	12/09/19	3,625.00		
J001B1EF	12/03/19	12/10/19	500.00		
J001B425	12/07/19	12/20/19	2,350.00		
J001B51F_1	12/10/19	01/08/20	3,500.00		
J001B536_1	12/11/19	12/17/19	3,209.18		
J001B6A4	12/11/19	12/17/19	1,150.00		
J001BC2F	12/20/19	01/02/20	1,500.00		
J001BDB6_1	12/24/19	01/08/20	2,675.00		
Subtotal			18,509.18	-	December 2019
J001C059	01/03/20	01/23/20	5,750.00		
J001C162	01/07/20	01/15/20	250.00		
J001C15F	01/07/20	02/10/20	1,550.00		

Per	Xome	t <b>ry F</b>	Records
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Xometry	Accepted	Shipped		
Job	Date	Date	Amount	Month
J001C3F5	01/12/20	01/15/20	500.00	
J001C57E	01/14/20	01/28/20	450.00	
J001C67A	01/16/20	01/21/20	1,850.00	
J001C982	01/22/20	01/29/20	1,875.00	
J001CA44	01/23/20	02/07/20	3,950.00	
J001CC03	01/26/20	02/05/20	2,400.00	
J001CC9E	01/27/20	02/11/20	4,700.00	
J001CF7C	01/30/20	02/18/20	250.00	
Subtotal			23,525.00	January 2020
J001D15C	02/04/20	02/10/20	2,400.00	
J001D2E9	02/05/20	02/13/20	3,250.00	
J001D511	02/07/20	02/14/20	2,500.00	
J001D516	02/07/20	02/18/20	2,450.00	
J001D72B	02/12/20	02/25/20	2,150.00	
J001D85C	02/13/20	02/26/20	4,200.00	
J001D82B_1	-	-	200.00	^
J001D8BA	02/14/20	03/03/20	800.00	
J001D945	02/14/20	03/24/20	13,900.00	
J001D999	02/17/20	03/02/20	1,000.00	
J001D991	02/17/20	03/03/20	800.00	
J001DD35	02/21/20	03/02/20	1,450.00	
J001DD8D	02/24/20	03/03/20	1,046.93	
J001E09A	02/26/20	03/04/20	1,600.00	
J001E2D0	02/28/20	03/09/20	1,900.00	
J001E430	02/29/20	03/05/20	1,800.00	
J001E3E3	02/29/20	03/19/20	2,900.00	
Subtotal			44,346.93	February 2020
J001E521	03/04/20	03/10/20	2,033.69	
J001E725	03/04/20	03/18/20	1,500.00	
J001E8C3_2	03/06/20	03/26/20	3,500.00	
J001ED20	03/12/20	03/31/20	1,800.00	

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	Month
J001EE26	03/13/20	03/23/20	1,122.27	#
J001EED6	03/16/20	03/20/20	800.00	
J001F06F	03/17/20	03/24/20	1,250.00	
J001F2CF	03/19/20	03/31/20	500.00	
J001F2DE	03/19/20	04/02/20	450.00	
J001F31E	03/20/20	04/14/20	4,000.00	
J001F4B5	03/23/20	03/31/20	500.00	
J001F4B6	03/23/20	04/02/20	3,000.00	
J001F5E0	03/25/20	03/31/20	240.93	
J001F7CB	03/30/20	04/10/20	1,700.00	
Subtotal		•	22,396.89	March 2020
J001F9A9	04/01/20	04/23/20	3,980.00	•
J001F9EB	04/02/20	04/17/20	2,422.12	#
J001FBDD	04/07/20	04/22/20	1,967.51	
J001FF51	04/13/20	04/14/20	63.69	
J001FF8F	04/14/20	04/21/20	195.79	
J001FFBF	04/14/20	04/27/20	105.00	
J001FFF0	04/15/20	04/30/20	1,805.00	
J0020253	04/17/20	04/22/20	250.00	
J0020383	04/21/20	04/27/20	1,800.00	
J00204A8	04/22/20	04/24/20	7,000.00	
J0020452	04/22/20	04/29/20	155.00	
J0020516	04/23/20	04/29/20	93.99	
J0020579	04/24/20	04/30/20	1,500.00	
J00205F6	04/24/20	05/05/20	1,800.00	
J0020646	04/25/20	04/30/20	900.00	
J002072A	-	-	333.93	^
J0020838	04/28/20	05/20/20	2,300.00	
J00207F6	04/29/20	05/06/20	101.85	

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

	Pe	r xometry Record	18	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0020919	04/29/20	05/15/20	1,600.00	
J0020938	04/30/20	05/04/20	165.00	
J00209DB	04/30/20	05/18/20	1,600.00	
Subtotal			30,138.88	April 2020
J0020AE4	05/02/20	05/04/20	245.00	•
J0020BC5	05/04/20	05/05/20	400.00	
J0020B71	05/04/20	05/12/20	350.00	
J0020C14	05/05/20	05/05/20	136.88	
J0020C47	05/05/20	05/05/20	149.74	
J0020C3E	05/05/20	05/06/20	190.00	
J0020B79	05/05/20	05/08/20	273.00	
J0020C3D	05/05/20	05/22/20	975.00	
J0020CC4	05/06/20	05/13/20	400.00	
J0020DAC	05/07/20	05/13/20	5,500.00	
J0020EAC	05/08/20	05/13/20	305.55	
J0020F68	05/10/20	05/11/20	250.00	
J0021082	05/12/20	05/15/20	300.00	
J0021092	05/12/20	05/15/20	206.60	
J00210FA	05/12/20	05/28/20	125.00	
J00211ED	05/14/20	05/18/20	250.00	
J00211EE	05/14/20	05/26/20	1,000.00	
J002150A	05/19/20	05/29/20	210.95	
J002150A_1	05/19/20	05/29/20	450.00	
J00214AA	05/19/20	06/09/20	421.72	#
J00215F3	05/20/20	06/05/20	2,495.00	
J002174A	05/22/20	05/28/20	70.99	
J0021796	05/23/20	06/08/20	1,250.00	
J00217D5	05/26/20	05/28/20	58.00	
J0021851	05/26/20	06/03/20	205.97	
J002183C	05/26/20	06/08/20	369.88	
J00219BE	05/28/20	06/01/20	900.00	

Per	Xome	t <b>ry</b> R	Record	ls
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	re.	i Admetry Record	72	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J00219F8	05/28/20	06/09/20	3,500.00	
J0021ABA	05/29/20	06/04/20	700.00	
J0021AB4	05/29/20	06/15/20	144.41	
Subtotal			21,833.69	May 2020
J0021BD6	06/02/20	06/02/20	79.00	
J0021C87	06/02/20	06/08/20	800.00	
J0021D02	06/03/20	06/03/20	150.83	
J0021DA9	06/04/20	06/11/20	205.00	
J0021DAA	06/04/20	06/12/20	900.00	
J0021E08	06/05/20	06/22/20	1,400.00	
J00220DC	06/09/20	06/11/20	124.41	
J00220EA	06/09/20	06/11/20	100.00	
J0022108	06/09/20	06/17/20	1,377.69	
J0022108_1	06/09/20	06/17/20	1,800.00	
J0022154	06/09/20	06/24/20	2,133.09	
J0022154_1	06/09/20	06/24/20	3,300.00	
J0022395	06/12/20	06/16/20	115.92	
J0022572	06/16/20	06/16/20	200.00	
J0022575	06/16/20	06/18/20	150.00	
J0022574	06/16/20	06/25/20	900.00	
J0022573	06/16/20	06/30/20	1,650.00	
J0022829	06/18/20	06/25/20	1,500.00	
J0022757	06/18/20	06/26/20	800.00	
J0022878	06/19/20	06/23/20	126.75	
J00228C1	06/19/20	06/25/20	71.88	
J00228FF	06/19/20	06/25/20	109.19	
J0022939	06/20/20	07/06/20	175.00	
J0022970	06/22/20	06/23/20	90.56	
J002295A	06/22/20	06/25/20	159.01	
J002295B	06/22/20	06/25/20	132.96	
J0022A0F	06/22/20	06/29/20	2,206.88	

Per	Xome	t <b>ry</b> R	Record	ls
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	10	r xometry Record	4.0	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0022994	06/22/20	07/02/20	13,000.00	
J0022B9F	06/24/20	06/25/20	650.00	
J0022C68	06/24/20	07/02/20	67.39	
J0022B9E	06/24/20	08/20/20	6,000.00	
J0022C8E	06/25/20	07/02/20	750.00	
J0022D3B	06/25/20	07/10/20	492.93	
J0022F43	06/30/20	07/15/20	500.00	
Subtotal			42,218.49	June 2020
J00230FF	07/02/20	07/09/20	337.79	
J00230FF_1	07/02/20	07/09/20	700.00	
J0023246	07/03/20	07/15/20	2,000.00	
J0023244	07/03/20	07/16/20	600.00	
J0023244_1	07/03/20	07/16/20	900.00	
J002327A	07/06/20	07/15/20	700.00	
J002327A_1	07/06/20	07/15/20	700.00	
J002327A_2	07/06/20	07/15/20	1,100.00	
J002358A	07/09/20	07/20/20	925.00	
J0023723	07/10/20	07/15/20	192.25	
J00237C8	07/13/20	07/20/20	780.73	
J00237D2	07/13/20	07/25/20	333.53	
J002377F	07/14/20	07/17/20	300.00	
J00238D9	07/14/20	07/25/20	525.00	
J00238FC	07/14/20	07/25/20	500.00	
J0023923	07/15/20	08/10/20	3,800.00	
J0023923_1	07/15/20	08/10/20	3,800.00	
J0023923_2	07/15/20	08/10/20	4,300.00	
J0023923_3	07/15/20	08/10/20	5,600.00	
J0023DDE	07/22/20	07/31/20	1,000.00	
J0023EC0	07/23/20	08/13/20	14,300.00	
J002408C	07/26/20	07/30/20	550.00	
J002408D	07/26/20	07/30/20	500.00	

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	Month
J00242E1	07/29/20	08/06/20	300.00	
J00242E2	07/29/20	08/06/20	290.00	
J00242E0	07/29/20	08/18/20	300.00	
J002441E	07/30/20	08/10/20	330.00	
J0024425	07/30/20	08/10/20	1,500.00	
J00244BE	07/31/20	08/13/20	4,200.00	
Subtotal			51,364.30	July 2020
J0024631	08/03/20	08/18/20	3,000.00	
J0024631_1	08/03/20	08/18/20	3,500.00	
J002472B	08/04/20	08/13/20	39.26	
J002472B_1	08/04/20	08/13/20	80.00	
J00247CE	08/05/20	09/01/20	3,400.00	
J0024AFE	08/09/20	08/21/20	3,500.00	
J0024CE4	08/12/20	08/26/20	1,200.00	
J0024DC7	08/13/20	08/18/20	2,200.00	
J0024F71	08/15/20	08/19/20	750.00	
J0024F7D	08/15/20	08/19/20	350.00	
J0024F72	08/15/20	09/04/20	1,100.00	
J002519E	08/19/20	08/24/20	1,200.00	
J002519D	08/19/20	09/09/20	2,300.00	
J00252CF	08/20/20	08/21/20	500.00	
J00252D0	08/20/20	09/16/20	3,000.00	
J00252D0_1	08/20/20	09/16/20	3,316.00	
J0025621	08/25/20	08/25/20	160.00	
J0025A21	08/28/20	09/03/20	410.00	
J0025A26	08/28/20	09/10/20	1,100.00	
J0025A44	08/29/20	09/04/20	630.00	
J0025B67	08/31/20	09/08/20	800.00	
Subtotal			32,535.26	August 2020
J0025CBA	09/02/20	09/10/20	650.00	
J0025D60	09/03/20	09/06/20	152.60	

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

	re.	L MOINELLY RECOIL	12	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0025FEF	09/08/20	09/21/20	1,300.00	
J0026142	09/09/20	09/12/20	844.07	
J0026142_1	09/09/20	09/12/20	1,250.00	
J0026117	09/09/20	09/14/20	125.00	
J0025F8F	09/09/20	09/15/20	265.58	
J0025F8F_1	09/09/20	09/15/20	600.00	
J002641E	09/11/20	09/24/20	5,000.00	
J0026670	09/15/20	09/23/20	900.00	
J0026586	09/15/20	09/25/20	600.00	
J0026586_1	09/15/20	09/25/20	900.00	
J0026585	09/15/20	09/28/20	900.00	
J0026A52	09/21/20	10/08/20	204.60	
J0026A52_1	09/21/20	10/08/20	360.00	
J0026AF7	09/22/20	10/05/20	203.55	
J0026AF7_1	09/22/20	10/05/20	430.00	
J0026BB2	09/22/20	10/05/20	630.45	
J0026BB2_1	09/22/20	10/05/20	780.00	
J0026CEA	09/23/20	09/29/20	800.00	
J0026C58	09/23/20	10/11/20	206.38	
J0026C58_1	09/23/20	10/11/20	430.00	
J0026DF6	09/24/20	10/15/20	1,550.00	
J0026E89	09/25/20	10/02/20	850.00	
J0026E8A	09/25/20	10/15/20	1,600.00	
J0026FDE	09/27/20	09/29/20	1,000.00	
J0026FDD	09/27/20	10/05/20	640.00	
J0026FB3	09/28/20	10/02/20	700.00	
J0026FCE	09/28/20	10/16/20	1,264.73	
J0026FCE_1	09/28/20	10/16/20	2,000.00	
J0027180	09/29/20	10/13/20	800.00	
J00270E4	09/29/20	10/19/20	3,200.00	
J00270E4_1	09/29/20	10/19/20	3,200.00	

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	Month
J00272D2	09/30/20	10/07/20	1,710.57	
Subtotal			36,047.53	September 2020
J0027351	10/01/20	10/07/20	1,000.00	
J0027350	10/01/20	10/09/20	980.00	
J0027453	10/02/20	11/05/20	5,500.00	
J0027574	10/03/20	10/08/20	650.00	
J00275A1	10/05/20	10/12/20	135.12	
J00275A1_1	10/05/20	10/12/20	260.00	
J0027518	10/05/20	10/22/20	76.07	
J0027518_1	10/05/20	10/22/20	130.00	
J0027937	10/08/20	10/13/20	2,050.00	
J0027AA5	10/12/20	10/20/20	2,500.00	
J0027AA6	10/12/20	10/20/20	2,000.00	
J0027E49	10/15/20	10/22/20	1,000.00	
J002803E	10/16/20	10/23/20	1,250.00	
J0028408	10/21/20	10/28/20	1,200.00	
J002840A	10/21/20	11/01/20	1,030.00	
J0028845	10/24/20	11/11/20	1,800.00	
J00288B6	10/26/20	10/29/20	500.00	
J002897C	10/27/20	11/02/20	3,000.00	
J0028DBC	10/30/20	11/04/20	630.45	
J0028DBC_1	10/30/20	11/04/20	1,000.00	
J0028D6F	10/30/20	11/12/20	1,300.00	
J0028E6A	10/30/20	11/15/20	1,500.00	
Subtotal			29,491.64	October 2020
J0028FD1	11/03/20	11/05/20	412.03	
J0029086	11/03/20	11/19/20	2,300.00	
J002950B	11/07/20	11/11/20	700.00	
J0029513	11/08/20	11/11/20	500.00	
J0029514	11/08/20	12/16/20	3,300.00	
J0029514_1	11/08/20	12/16/20	3,900.00	

Per	Xome	t <b>ry</b> R	Records
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	161	Admetry Record	12	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J00299E9	11/13/20	11/28/20	500.00	
J0029A97	11/13/20	11/30/20	1,700.00	
J0029C1C	11/16/20	11/19/20	850.00	
J0029B26	11/16/20	11/20/20	700.00	
J0029B5A	11/16/20	11/23/20	600.00	
J0029FEA	11/19/20	12/07/20	700.00	
J0029FEA_1	11/19/20	12/07/20	1,100.00	
J002A09A	11/20/20	12/15/20	1,600.00	
J002A09A_1	11/20/20	12/15/20	2,000.00	
J002A17B	11/22/20	11/28/20	700.00	
J002A17A	11/22/20	11/30/20	500.00	
J002A3F6	11/24/20	11/30/20	1,600.00	
J002A25D	11/24/20	12/02/20	1,600.00	
J002A40A	11/24/20	12/02/20	900.00	
Subtotal			26,162.03	November 2020
J002A74E	12/01/20	12/08/20	700.00	
J002A7CD	12/01/20	12/08/20	500.00	
J002A8AA	12/02/20	12/08/20	350.00	
J002A9E6	12/02/20	12/15/20	700.00	
J002A8AF	12/02/20	12/16/20	650.00	
J002A8AF_1	12/02/20	12/16/20	1,000.00	
J002A9E1	12/02/20	12/18/20	600.00	
J002AB05	12/03/20	12/17/20	500.00	
J002AB09	12/03/20	12/17/20	500.00	
J002AB55	12/03/20	12/31/20	22,000.00	
J002BA8F	12/20/20	12/29/20	300.00	
J002BA91	12/20/20	12/30/20	600.00	
J002BA8E	12/20/20	01/06/21	1,200.00	
J002BA90	12/20/20	01/06/21	600.00	
J002BA8D	12/20/20	01/15/21	2,000.00	
J002BA8D_1	12/20/20	01/15/21	-	

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	Month
J002BBED	12/22/20	01/13/21	800.00	
J002BE35	12/23/20	12/31/20	2,000.00	
J002BCED	12/23/20	01/12/21	1,000.00	
J002BE52	12/24/20	01/05/21	2,000.00	
J002BEC6	12/27/20	01/11/21	700.00	
J002BEE9	12/28/20	01/04/21	89.18	
J002BEE9_1	12/28/20	01/04/21	160.00	
J002C101	12/30/20	01/08/21	1,100.00	
J002C1E3	12/31/20	01/13/21	2,500.00	
Subtotal			42,549.18	December 2020
J002C3AC	01/05/21	01/15/21	1,000.00	
J002C4F3	01/06/21	01/19/21	1,200.00	
J002C55B	01/07/21	01/13/21	800.00	
J002C5D1	01/07/21	01/18/21	700.00	
J002C712	01/09/21	01/21/21	1,350.00	
J002C772	01/11/21	01/25/21	900.00	
J002C8CD	01/12/21	01/20/21	800.00	
J002C8E9	01/12/21	01/29/21	500.00	
J002C8E9_1	01/12/21	01/29/21	-	
J002CC42	01/15/21	01/21/21	1,000.00	
J002CD21	01/15/21	01/23/21	1,200.00	
J002CDD0	01/18/21	02/10/21	600.00	
J002CDD0_1	01/18/21	02/10/21	700.00	
J002CDD0_2	01/18/21	02/10/21	600.00	
J002CDD0_3	01/18/21	02/10/21	600.00	
J002CDD0_4	01/18/21	02/10/21	600.00	
J002D29E	01/21/21	02/09/21	1,600.00	
J002D2B2	01/22/21	01/28/21	1,000.00	
J002D321	01/22/21	02/01/21	1,100.00	
J002D501	-	-	3,000.00	^
J002D889	01/28/21	02/01/21	1,100.00	

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

Xometry Job	Accepted Date	Shipped Date	Amount	Month
J002D94E	01/28/21	02/03/21	1,250.00	
J002D9BE	01/29/21	02/03/21	650.00	
J002DB5A	01/31/21	02/08/21	350.00	
Subtotal			22,600.00	January 2021
J002DCDB	02/02/21	02/09/21	2,000.00	
J002DCDE	02/02/21	02/10/21	2,200.00	
J002DCDE_1	02/02/21	02/10/21	2,200.00	
J002F24C	02/22/21	03/09/21	900.00	
J002F711	02/24/21	03/08/21	3,500.00	
J002F711_1	02/24/21	03/08/21	3,500.00	
J002F8B1	02/25/21	03/04/21	4,000.00	
J002F7B8	02/25/21	03/10/21	1,000.00	
Subtotal			19,300.00	February 2021
J003009A	03/05/21	03/10/21	1,617.37	
J003009C	03/05/21	03/12/21	1,705.01	
J0034440	03/05/21	05/11/21	1,800.00	
J0030354	03/08/21	03/17/21	1,223.77	
J0030496	03/09/21	03/15/21	200.00	
J0030523	03/10/21	03/23/21	2,000.00	
J00308C4	03/12/21	03/16/21	225.00	
J0030915	03/12/21	03/19/21	447.40	
J0030911	03/12/21	03/30/21	163.65	
J0030B3E	03/15/21	04/15/21	3,600.00	
J0030B3E_1	03/15/21	04/15/21	3,600.00	
J0030B3E_2	03/15/21	04/15/21	3,600.00	
J0030C3A	03/16/21	03/18/21	250.00	
J0031056	03/18/21	05/24/21	5,500.00	
J0031056_1	03/18/21	05/24/21	5,500.00	
J0031056_2	03/18/21	05/24/21	6,300.00	
J0031560	03/23/21	04/05/21	329.92	
J00317BD	03/25/21	03/30/21	1,250.00	

Per	Xome	t <b>ry</b> R	Record	ls
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	re.	I Mometry Record	12	
Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0031B9C	03/29/21	04/02/21	525.00	
J003193D	03/30/21	04/02/21	975.00	
J0031C31_1	03/31/21	04/13/21	1,100.00	
Subtotal			41,912.12	March 2021
J0032195	04/02/21	04/07/21	837.37	
J0032056	04/03/21	04/07/21	750.00	
J00323F2	04/05/21	04/12/21	815.41	
J00323F2_1	04/05/21	04/12/21	815.41	
J00323DB	04/06/21	04/15/21	450.00	
J00323DB_1	04/06/21	04/15/21	450.00	
J00325DC	04/07/21	04/12/21	2,500.00	
J00325DC_1	04/07/21	04/12/21	2,500.00	
J00327E6	04/09/21	04/27/21	1,250.00	
J0032A5D	04/09/21	04/28/21	1,753.00	
J0032AF7	04/12/21	04/22/21	925.00	
J0032D87	04/13/21	04/17/21	475.00	
J0032F51	04/14/21	04/14/21	300.00	
J0032F26	04/14/21	04/21/21	1,900.00	
J0033223	04/16/21	04/21/21	135.00	
J003335F	04/16/21	04/28/21	3,250.00	
J0033505	04/19/21	04/27/21	600.00	
J0033641	04/20/21	04/25/21	625.00	
J003398C	04/21/21	04/27/21	2,250.00	
J0033A87	04/22/21	04/24/21	625.00	
J00337E0	04/22/21	04/26/21	475.00	
J00336D1	04/22/21	04/29/21	750.00	
J0033ECB	04/26/21	04/30/21	850.00	
J0033D90	04/26/21	05/05/21	800.00	
J0033E7F	04/27/21	05/03/21	500.00	
J0033F39	04/27/21	05/03/21	600.00	
J0034091	04/27/21	05/05/21	900.00	

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

Xometry Job	Accepted Date	Shipped Date	Amount	Month
J00341C8	04/28/21	05/05/21	646.91	
J0034461	04/30/21	05/11/21	500.00	
Subtotal			29,228.10	April 2021
J0034870	05/03/21	05/06/21	500.00	
J003465C	05/03/21	05/15/21	1,500.00	
J00347BB	05/03/21	05/17/21	1,750.00	
J0034771	05/04/21	06/03/21	5,500.00	
J0034BBD	05/05/21	05/13/21	1,200.00	
J0034BBD_1	05/05/21	05/13/21	1,200.00	
J0034AF5	05/05/21	05/20/21	6,000.00	
J0034AF5_1	05/05/21	05/20/21	6,000.00	
J0034C6E	05/06/21	05/12/21	350.00	
J0034AF7	05/06/21	05/13/21	925.00	
J0034E2A	05/07/21	05/12/21	575.00	
J0034D2C	05/07/21	05/14/21	800.00	
J0034D2C_1	05/07/21	05/14/21	800.00	
J0034F35	05/07/21	05/20/21	9,500.00	
J0034F35_1	05/07/21	05/20/21	9,500.00	
J0034F35_2	05/07/21	05/20/21	5,777.18	
J0034D2A	05/07/21	05/27/21	1,200.00	
J0034D24	05/08/21	05/17/21	1,200.00	
J0034D24_1	05/08/21	05/17/21	1,200.00	
J0034E0B	05/10/21	05/12/21	750.00	
J00350F8	05/10/21	05/18/21	500.00	
J003525F	05/10/21	06/01/21	547.88	
J003554F	05/12/21	05/25/21	900.00	
J00359FA	05/14/21	05/19/21	1,000.00	
J0035AD8	05/19/21	05/20/21	600.00	
J0035A46	05/19/21	05/27/21	1,200.00	
J00360E9	05/22/21	06/05/21	1,250.00	
J00365F7	05/25/21	06/01/21	800.00	

Per	Xometry	Records
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Xometry Job	Accepted Date	Shipped Date	Amount	Month
J0036487	05/26/21	06/05/21	900.00	
J0036AEB	05/28/21	06/01/21	905.00	
J0036BBD	05/31/21	06/16/21	1,174.00	
Subtotal			66,004.06	May 2021
J0036EE1	06/03/21	06/08/21	826.60	
J0036E4D	06/03/21	06/25/21	3,438.75	
J0037652	06/09/21	07/16/21	5,551.36	
J0037861	06/10/21	06/21/21	900.00	
J00377AB	06/11/21	06/24/21	1,200.00	
J0037929	06/12/21	06/17/21	1,200.00	
J00379BD	06/13/21	06/17/21	900.00	
J0037FAE	06/17/21	06/30/21	900.00	
J003822F	06/21/21	06/25/21	1,800.00	
J00382AC	06/21/21	07/08/21	900.00	
J00383AF	06/22/21	07/08/21	300.00	
J0038686	06/23/21	07/14/21	1,500.00	
J0038974	06/25/21	07/13/21	1,975.00	
J0038974_1	06/25/21	07/13/21	1,975.00	
Subtotal			23,366.71	June 2021
J003A810	07/22/21	07/28/21	450.00	
J003A7AE	07/22/21	08/04/21	3,000.00	
J003AA35	07/23/21	07/28/21	900.00	
J003A7EC	07/23/21	07/30/21	1,350.00	
J003A939	07/23/21	08/02/21	150.00	
J003AA17	07/23/21	08/03/21	600.00	
J003ACAD	07/27/21	08/12/21	1,700.00	
J003AF91	07/29/21	08/02/21	500.00	
J003AF42	07/29/21	08/20/21	1,900.00	
J003AF42_1	07/29/21	08/20/21	1,900.00	
Subtotal			12,450.00	July 2021

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

Xometry	Accepted	Shipped	13	
Job	Date	Date	Amount	Month
J003B438	08/02/21	08/12/21	128.72	
J003B526	08/03/21	08/09/21	250.00	
J003B91E	08/05/21	08/18/21	2,699.63	
J003B83A	08/06/21	08/09/21	750.00	
J003BC27	08/09/21	08/17/21	1,100.00	
J003BD48	08/10/21	08/13/21	2,500.00	
J003C43D	08/13/21	08/23/21	600.00	
J003C435	08/13/21	08/29/21	575.00	
J003C622	08/17/21	08/23/21	600.00	
J003CC83	08/19/21	08/30/21	600.00	
J003CA4E	08/19/21	09/09/21	885.00	
J003CFA7	08/23/21	09/16/21	4,800.00	
J003D222	08/24/21	09/14/21	1,814.06	
J003D222_1	08/24/21	09/14/21	1,814.06	
J003D001	08/25/21	08/31/21	449.23	
J003D2A5	08/26/21	09/11/21	550.00	
J003D6B9	08/26/21	09/12/21	2,250.00	
J003D74A	08/27/21	09/07/21	400.00	
J003D808	08/27/21	09/14/21	500.00	
J003D806	08/27/21	09/22/21	2,650.00	
J003D8B9	08/30/21	09/07/21	350.00	
J003DB13	08/31/21	09/09/21	1,150.00	
Subtotal			27,415.70	August 2021
J003DDA4	09/02/21	09/14/21	1,200.00	
J003E1E7	09/07/21	09/16/21	1,900.00	
J003F47D	09/21/21	09/27/21	600.00	
J003F4F8	09/21/21	10/05/21	2,000.00	
J003F4F8_1	09/21/21	10/05/21	2,000.00	
J003F4F8_2	09/21/21	10/05/21	2,200.00	
J003F60D	09/22/21	09/29/21	950.00	
J003F704	09/22/21	10/07/21	700.00	

Diverted Revenues – Unmatched to a Specific Xomerty Job For the Period July 1, 2017 through September 30, 2021

**Per Xometry Records** 

Xometry Job	Accepted Date	Shipped Date	Amount	Month
J003FA0E	09/24/21	10/07/21	250.00	
J003FA0F	09/24/21	10/07/21	251.00	
J003FE6C	09/28/21	09/29/21	400.00	
Subtotal			12,451.00	September 2021
Total			\$ 770,537.37	

- ^ Accepted and Shipped Dates not provided by Xometry, but based on purchase order date, it is properly placed in choronlogical order.
- # Amount paid was less than the amount listed on the Purchase Order due to credits/advances applied per Xometry's payment records.
- ! Amount paid was more than the amount listed on the Purchase Order per Xometry's payment records (less than \$1.00).

#### Personal Procurement Card Purchases For the Period July 1, 2017 through September 30, 2021

#### Per Credit Card Statement

Date	Description	Amount
06/05/18	PP*ITUNES.COM/BILL	\$ 12.99
07/09/18	PP*ITUNES.COM/BILL	12.99
10/01/18	PAYPAL *LIU PING	781.00
10/22/18	PAYPAL *SHARSTOOLCO	56.80
10/22/18	PAYPAL *SHANGHAIXIA	361.90
12/03/18	PAYPAL *GUNDOGAN98	2,999.00
04/03/19	PROFESSIONAL PLASTICS	1,140.78
08/07/19	MCMASTER-CARR	418.61
10/21/19	EBAY O*16-04016-97647	149.55
03/10/20	XOMETRY, INC.	190.80
04/29/20	MCMASTER-CARR	116.91
11/30/20	THE DEPOT EXPRESS #10	2.71
12/15/20	HY-VEE CORALVILLE 1085	16.77
05/19/21	PHILLIPS 66 - FAST BREAK	52.58
Total		\$ 6,313.39

Staff

This review was performed by:

Melissa J. Finestead, CFE, Deputy Ryan T. Jelsma, CFE, Manager Julius O. Cooper, Staff Auditor Gono Quaye, Staff Auditor

> James S. Cunningham, CPA Chief Deputy Auditor of State

Appendices

Xometry Website - SUI Search



### Results for Univeristy of Iowa

Displaying 1 Result Filter Results

#### D3signTech 🕏

🗣 Williamsburg, IA 🛈 2008 - 🚢 1-10

At D3SignTech (D3T). The person you communicate with and pay your hard earned money to and put your trust in is the person who is making or designing your solution. This person will have more than 15 years of actual design and build experi...

Privacy Policy

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ISO 9001:2015 and AS9100D Certified

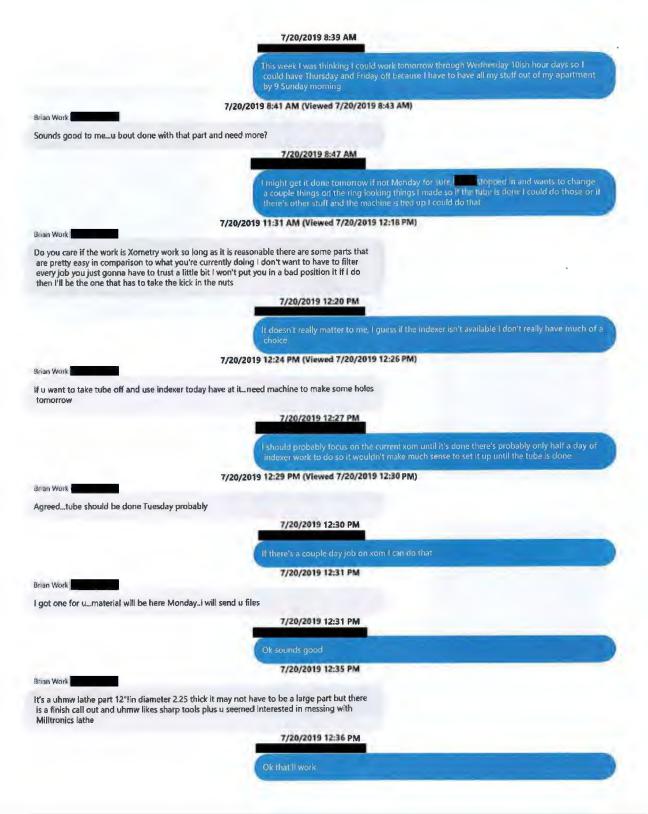
Customer Service Agreement

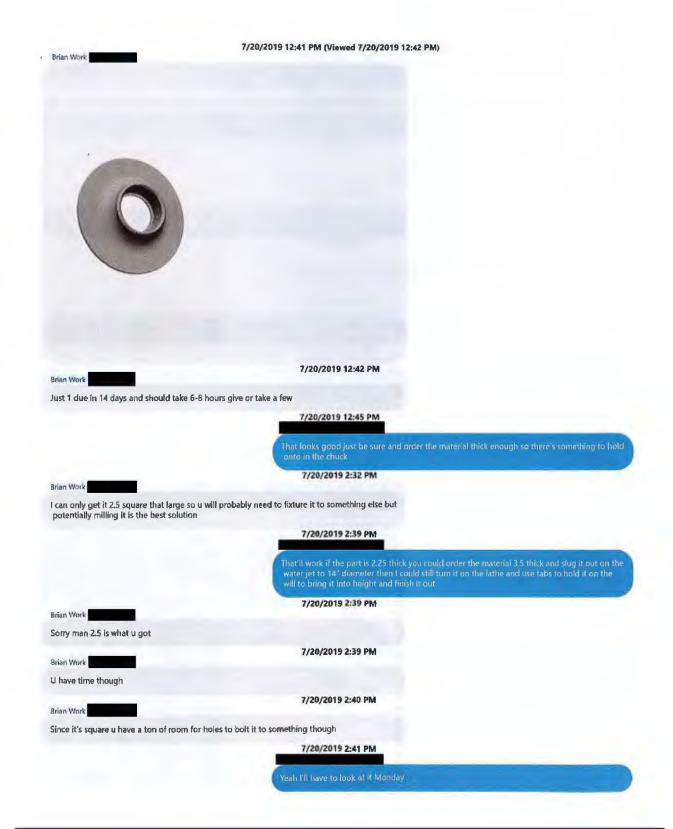
General Terms and Conditions

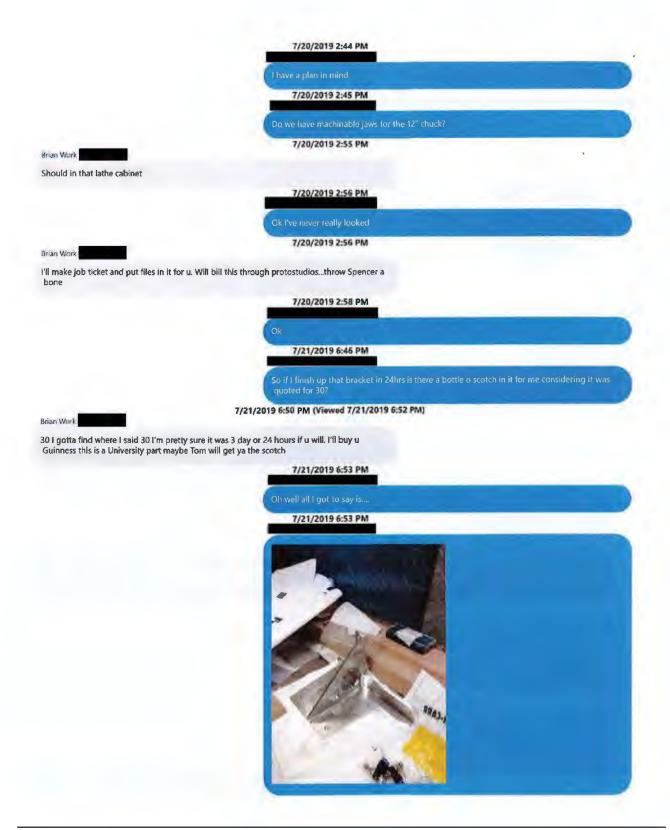
Partner Terms and Conditions

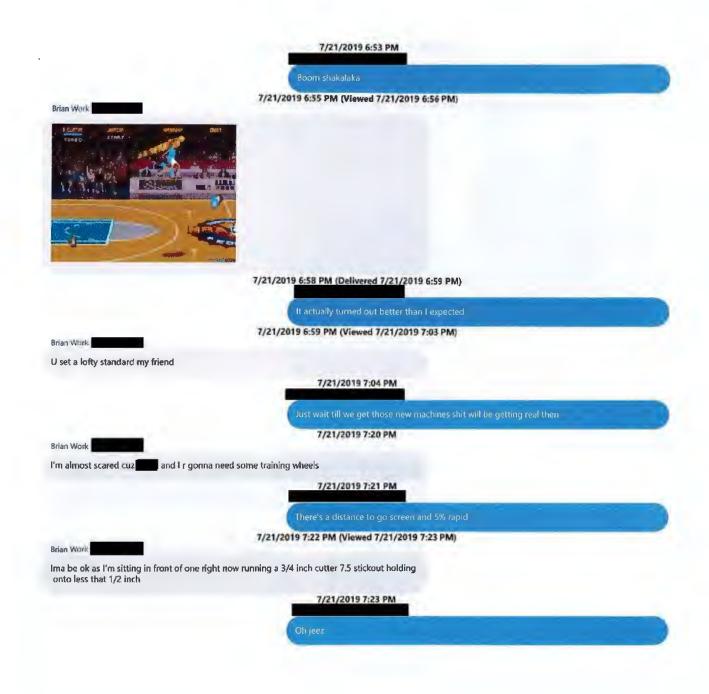










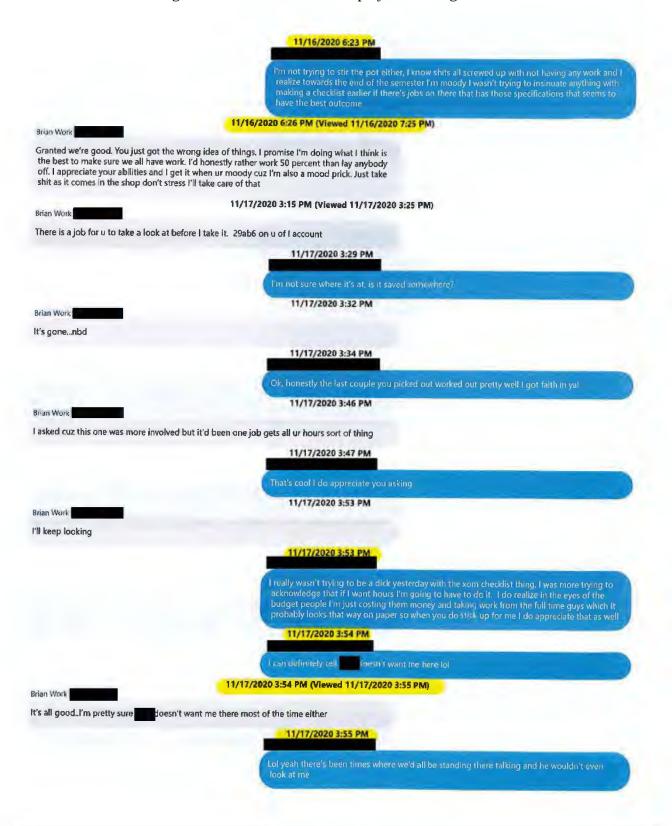




	6/22/2020 9:09 PM
	Was there any word on when the haas was supposed to be fixed I was hoping Friday to do a little demo for and rich if there around
D-2 101	6/22/2020 9:22 PM (Viewed 6/22/2020 9:23 PM)
Brian Work  There not really around but we could take be slow on toolchanges for now still I ant	Virians fir there I think it will work a to be
	6/22/2020 9:24 PM
	Ok, I was planning on taking the the next 3 days off then coming in Friday and Saturday to make up the hours anyway
	6/22/2020 9:24 PM (Viewed 6/22/2020 9:29 PM)
Coolio	22.27.27.27.27.27.27.27.27.27.27.27.27.2
Coolig	
Brian Work	6/22/2020 9:24 PM (Viewed 6/22/2020 9:29 PM)
Thanks again for fixin those parts	
	6/22/2020 9:31 PM
	Hopefully there right lol
	6/26/2020 9:10 AM
	9/50/2020 3.10 MM
	Do you know why the work light won't turn on and there's no power to the outlets on the back of the haas?
Brian Work	6/26/2020 9:40 AM (Viewed 6/26/2020 9:45 AM)
No just idea probably blown fuse	
Daine Wash	6/26/2020 9:44 AM (Viewed 6/26/2020 9:45 AM)
Brian Work  Somone probably plugged in vacuum or gri	
sometic probably progged in vacuum or gri	
	6/26/2020 9:46 AM
	Do you know where the key is to open the back of the machine I can look to see if a breaker is tripped
Brian Work	6/26/2020 9:49 AM (Viewed 6/26/2020 9:50 AM)
Really just need to talk the halout between	wouldn't have told everyone about me owning t. U guys just made having nice things harder. us in the shop. Everyone would be better off if we now u may not. Ur a good guy just sorry u guys t I get it
Brian Work	6/26/2020 9:50 AM (Viewed 6/26/2020 9:51 AM)
If it's just the outlet on machine itself it's a fu	se
	6/26/2020 9:51 AM
Brian Work	A) 2 A) 2 A 2 A 3 1 MM
If it's an outlet on the wall is a breaker	

ian Work.	6/26/2020 9:51 AM
nly maintenance has those keys we can't get	in
	6/26/2020 9:52 AM
	It's the outlet on the back of the machine
	6/26/2020 9:55 AM (Viewed 6/26/2020 9:56 AM)
ian Work	
nen it's a fuse just run ext cord	
ian Work	6/26/2020 9:59 AM (Viewed 6/26/2020 10:00 AM)
asically if U and was vant me out just say so nd if u want me to do things better or differe don't really need to know how the sausa	o or If something is bothering u. I'm not perfect ently let's have that discussion and and ge is made
ian Work	6/26/2020 10:04 AM
really sucks walking in and knowing people a eople basically whatever they want	are talking shit especially when I give those
rian Work	6/26/2020 11:04 AM (Viewed 6/26/2020 11:17 AM)
re u here?	
	6/26/2020 12:21 PM
	How about we let the smack talking stay in the past and if problems arise again I'll say
	something instead of bottling it up
ian Work	6/26/2020 12:22 PM (Viewed 6/26/2020 12:33 PM)
	nybody and really just want to get along with
	6/26/2020 12:33 PM (Delivered 6/26/2020 12:34 PM)
	(Table 1) and the level
	That thing must be huge!
	6/27/2020 11:57 AM
	I got a job on xom, we'll need to order some material, it said 316/316L. We need one piece 12x12x0.375 and one piece 1.5x1x12. McMaster has both of those, there's one more piece that is 10x5.5x2 that I don't think they have. It wouldn't hurt to look at the job and make sure it doesn't have to be some crazy material. We should also get some 1/4 flute cutters coming and a pack of .031 carbide drills
rian Work	6/27/2020 12:01 PM (Viewed 6/27/2020 12:03 PM)
o to Xometry Supplies they sell stainless stee hat material to the job through Xometry it's	el pick out what you want we can actually charge pretty Baller
	6/27/2020 12:05 PM
	Ok but I'm not doing it till I'm at work on Monday
	6/27/2020 12:38 PM

Brian Work	/16/2020 5:10 PM (Viewed 11/16/2020 5:11 PM)
If you drop the stipulation about Proto studios work it doesn't suck	'Il probably be easier to get work that
	11/16/2020 5:36 PM
	Speaking of protostuido did Spencer say something about wanting a couple more inserts made? He texted me this afternoon asking but didn't go much into detail
irian Work	11/16/2020 5:37 PM
le did say something today about more molds hopefowe'll see but as you know I got to have work lined up	
	/16/2020 5:44 PM (Viewed 11/16/2020 5:45 PM)
rian Work  the question remains then will you still just do the warmen and the warmen are still to the	work or does it matter that much
· · · · · · · · · · · · · · · · · · ·	11/16/2020 5:45 PM
rian Work	
Obviously the priority is university work then universiti work	es amatory work then Proto studios
rian Work	11/16/2020 5:47 PM
other words Proto studios work would be the last re	esort if nothing else came along
	11/16/2020 5:52 PM
	That works for me, I'd actually rather make molds then anything else doing work for Spencer doesn't bother me. It was protostudio taking work from design tech then outsourcing it to the shop that seemed like a conflict of interest to me, Unless it's put in writing that the whools ok with it i'd rather not be involved.
nian Work	11/16/2020 5:55 PM
ong story short I'm at the end of my rope with it I do anybody you can ask yourself if you'd like I'm no legit anyone can do it if you have a source of work an overage then feel free if not then I suggest you just ta and be happy	at sure what else you need to hear it's and are willing to pay Proto studios the
inian Work	11/16/2020 5:55 PM
ike I said I will try to avoid that but if you want the ho there is	ours and that's all there is then that's all
	11/16/2020 5:57 PM
	Works for me
	1/16/2020 5:58 PM (Viewed 11/16/2020 6:10 PM)
rian Work (3193256772)	
orry I'm not trying to be a dick but let's not make wa ruly not a good time to make waves	ives again you can ask grow if you want
nian Work	1/16/2020 6:15 PM (Viewed 11/16/2020 6:16 PM)
also remember that I am not your enemy. I want you t	to have the path of least resistance to ur
also remember that aim how your enemy. I wank you money that U earn while going to school. I am the on if you have work or not. I'm not sure where you got the bat for you to make what you doI was upset they his chance. We're not enemies Please stop thinking that still in ur corner.	ne person in our shop who honestly cares he idea of anything different: I went to red another idiot instead of giving u a

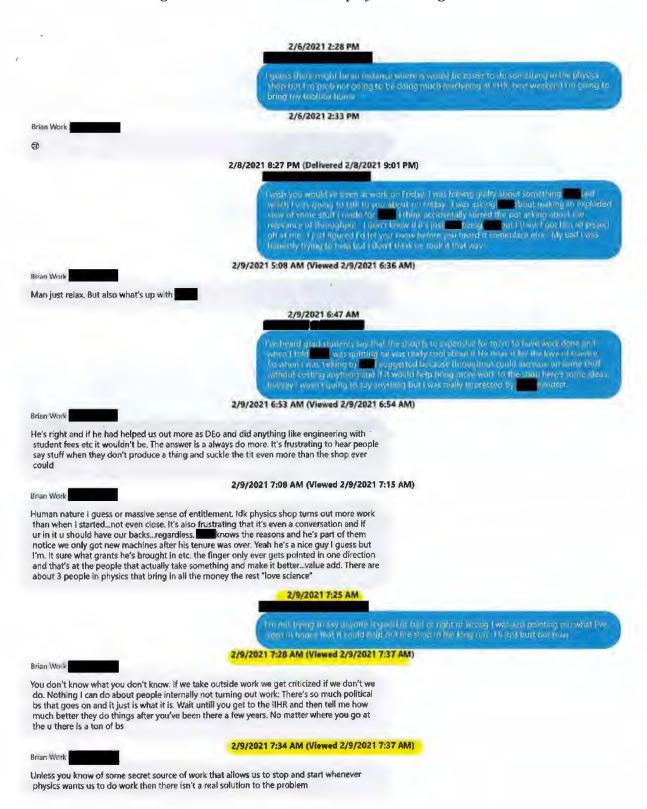


Brian Work	11/17/2020 3:57 PM
t'll all make sense when we are in a pu also. Don't read much into that he's ju what it is. I don't think he dislikes you	ust kinda a dick and loves and nobody else but it is
what it is. I don't mink he dishkes you	11/17/2020 3:58 PM
	11/11/2020 3.30 PM
	Do you know if there's a time frame on this potential probe? I do sinds in as it
	11/17/2020 3:59 PM (Viewed 11/17/2020 4:01 PM)
nan Work	
I'll be a few weeks yet	
	11/17/2020 4:02 PM
	the development begins there for enline time?
	Does it come with the zeroing ring and the clowel tool looking thing for calibration?
rian Work	11/17/2020 4:19 PM (Viewed 11/17/2020 4:33 PM)
Don't think so	
JOH CHIRIK SO	44 47 19979 7 17 7 1 1 1 1 1 1 1 1 1 1 1 1 1
rian Work	11/17/2020 7:55 PM (Viewed 11/17/2020 8:04 PM)
Cometry's board is fucked up right no	w there's jobs I'd take but can't get it to work
,	11/18/2020 7:20 PM
	I haven't had a chance to look getting the exams, lab reports and homework done before the break I've been pretty busy
irian Work	11/18/2020 7:21 PM (Viewed 11/18/2020 7:22 PM)
All good just saying it's not going well	but I'll figure it out
	11/18/2020 7:24 PM
	There's those molds Spencer wants to but from the sounds of it those wouldn't have to be done right away
	11/18/2020 7:39 PM (Viewed 11/18/2020 7:44 PM)
rian Work	
hat would be great if he had them it	g definitely do those first unless I find something to help
	11/18/2020 7:46 PM
	Ok, he wanted 2.8" blanks and 2 spacers. I could probably get them done in 10-12 hrs but how many hours could I put on them?
trian Work	11/18/2020 8:02 PM (Viewed 11/18/2020 8:03 PM)
t takes what it takes just take ur time	an be thorough
	11/19/2020 4:11 PM
	Hopefully Spencer gets me models tomorrow for those molds, I asked him today if there ready do h could get started on them tomorrow and he hasn't gotten back to me
	11/19/2020 4:12 PM (Viewed 11/19/2020 4:16 PM)
rian Work	
ask him	

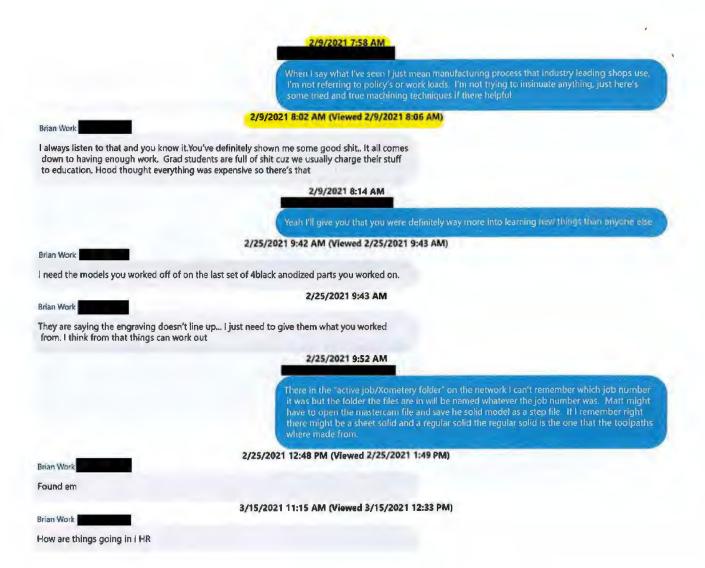
Text Messages from Brian Busch to Employee – Management Awareness

Brian Work	12/29/2020 10:52 AM (Viewed 12/29/2020 11:01 AM)
Unless u wanna chance it	
	12/29/2020 11:01 AM
	Well he pretty much didn't give me a choice
Brian Work	12/29/2020 11:01 AM (Viewed 12/29/2020 11:02 AM)
All good	
	12/29/2020 11:02 AM
Brian Work	
lust go	
	12/29/2020 1:21 PM
	If those cutters get here by noon tongerow (should still be able to get the parts out on time and I won't be to far over quote 1 know. I thinks I'm a financial burden but since Murch I've done mostly xom making \$60hr 100% of the time which is more than and willy can say plus being outside work that I income that the shop wouldn't get if I didn't do. Instead of saying how I make to much he outtable buying me a steak dinner tol.
Brian Work	12/29/2020 1:22 PM (Viewed 12/29/2020 1:27 PM)
	s knows it worth it. You don't ever have to justify it
Brian Work	12/29/2020 1:23 PM (Viewed 12/29/2020 1:27 PM)
	t's in it for you get through school and look back
	12/29/2020 1:27 PM (Delivered 12/29/2020 1:28 PM)
	True that
	12/29/2020 1:31 PM
	On a good note   got a 3.6 gua this semester
Brian Work	12/29/2020 1:31 PM (Viewed 12/29/2020 2:29 PM)
That's awesomel know u work ur ass	off for it
Brian Work	12/30/2020 10:41 AM (Viewed 12/30/2020 10:47 AM)
We're u able to make it in!'m still digg	ying out
30	12/30/2020 10:49 AM
	Yeah, the dovetail cutter came in but the Bot cutter didn't. I ground this one and I looked at it through the compaintor it seems like it would probably work but it's up to you if I should wait till the slot cutter comes in

Text Messages from Brian Busch to Employee - Management Awareness

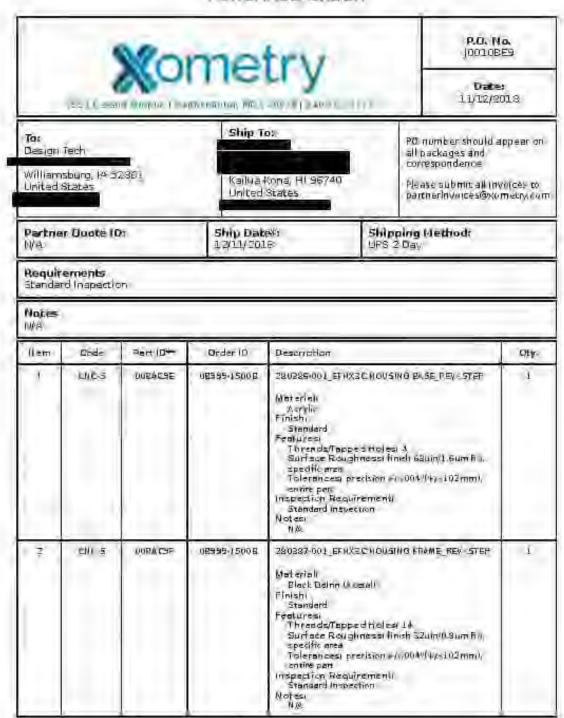


Text Messages from Brian Busch to Employee - Management Awareness



Copy of Purchase Order Number J0010BE9

## PURCHASE ORDER



#### Copy of Purchase Order Number J0010BE9

Item	Code	Part ID**	Order ID	Description	Qty.
3	CNC-5	00BACA0	0B999-1500B	280388-001_EFHX3C HOUSING COVER_REVSTEP	1
				Material: Black Delrin (Acetal) Finish: Standard Features: Threads/Tapped Holes: 22 Surface Roughness: finish 32uin/0.8um Ra, specific area Tolerances: precision +/004"(+/102mm), entire part Inspection Requirement: Standard Inspection Notes: N/A	

SUBTOTAL	\$7,500.00
TOTAL	\$7,500.00

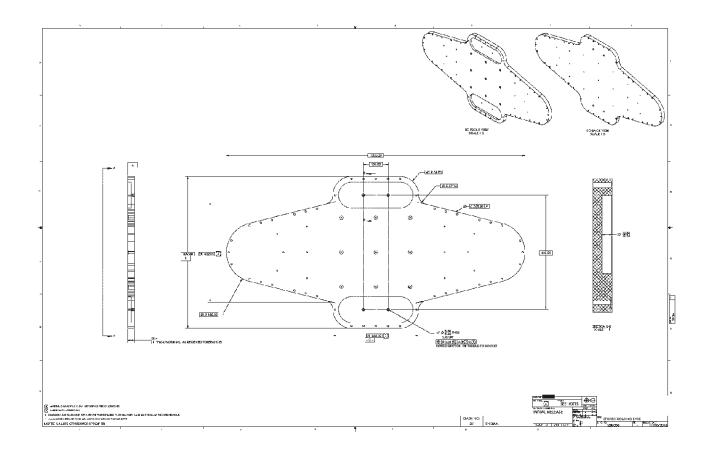
<sup>\*</sup>Ship Date refers to the date on which Xometry expects you to *ship* the parts. All shipments must receive an origin scan (e.g. they cannot be deposited in a drop box)

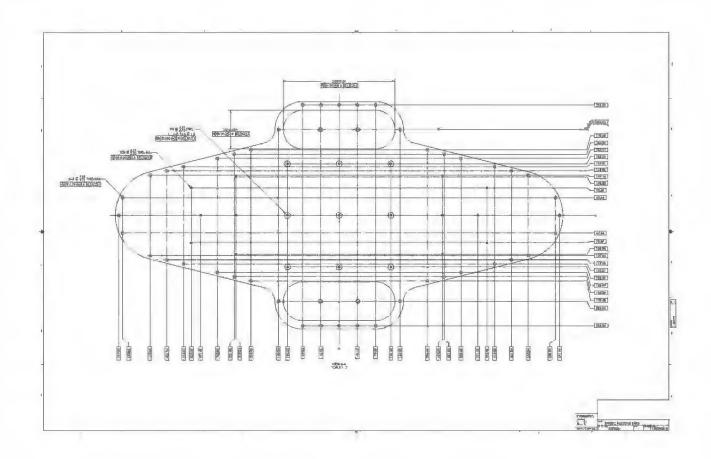
\*\*The Xometry provided part ID and revision are equivalent to the part number and revision in the CAD or PDF file, unless

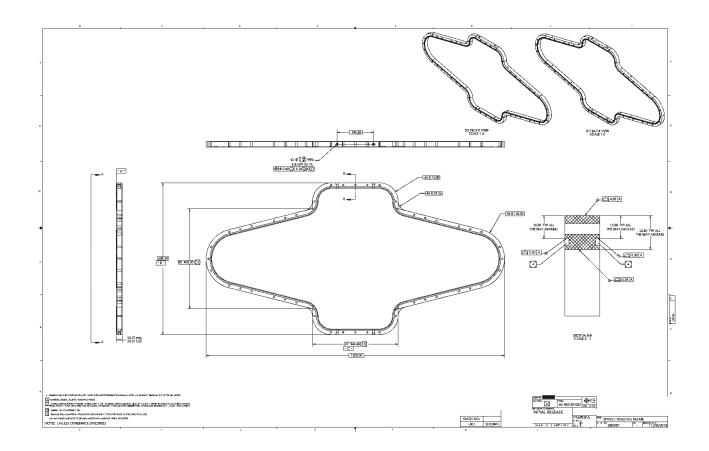
Note: Please submit all invoices to partner invoices@xometry.com. For terms and conditions, please see the Partner Manufacturing Services Agreement: <a href="https://www.xometry.com/vendor-terms-of-service/">https://www.xometry.com/vendor-terms-of-service/</a>.

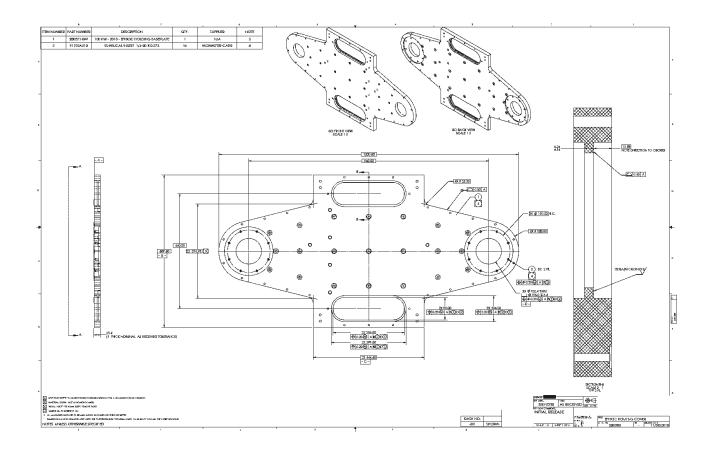
Approved By:	Date: 11/11/2018

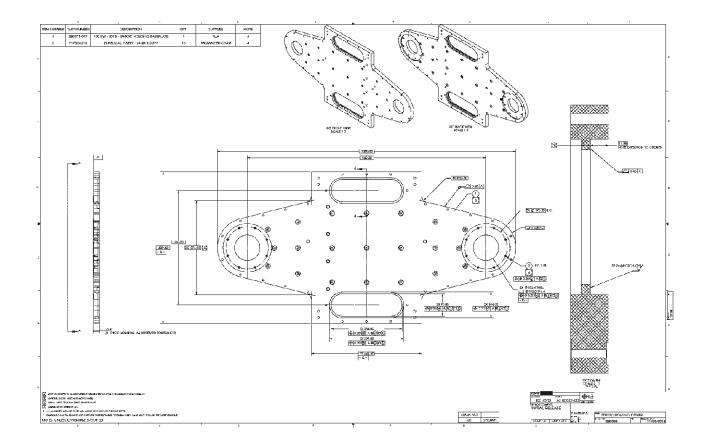
stated otherwise.

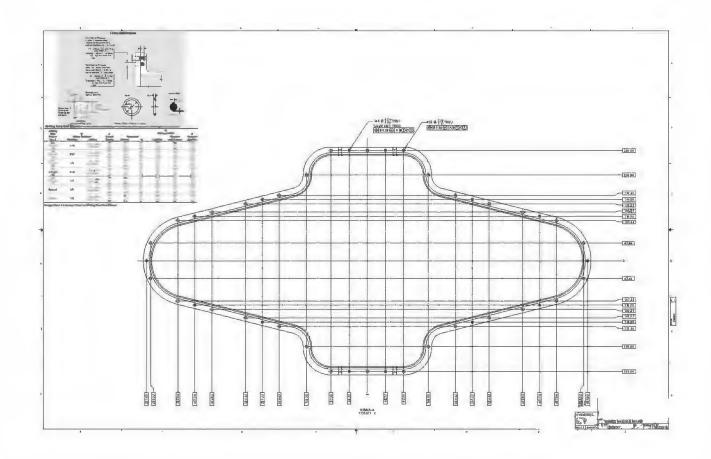




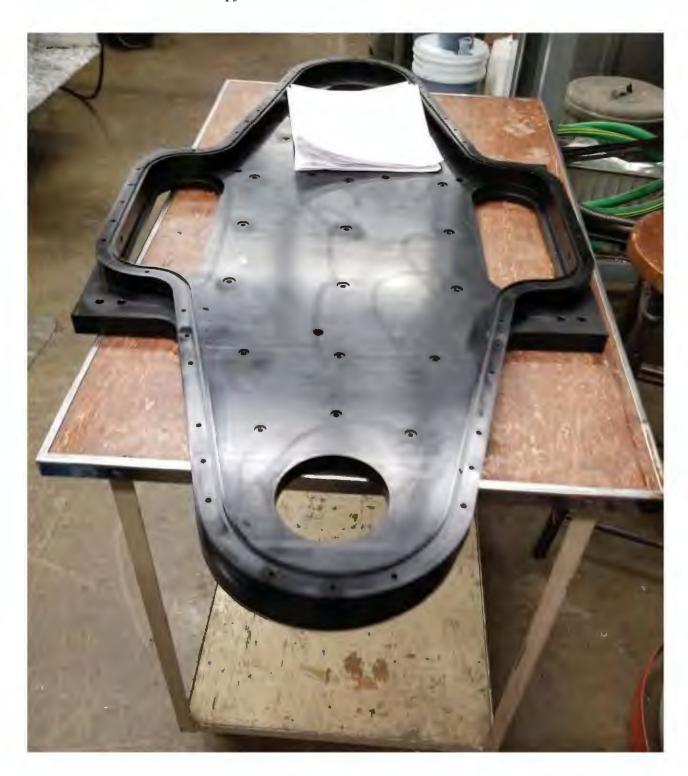






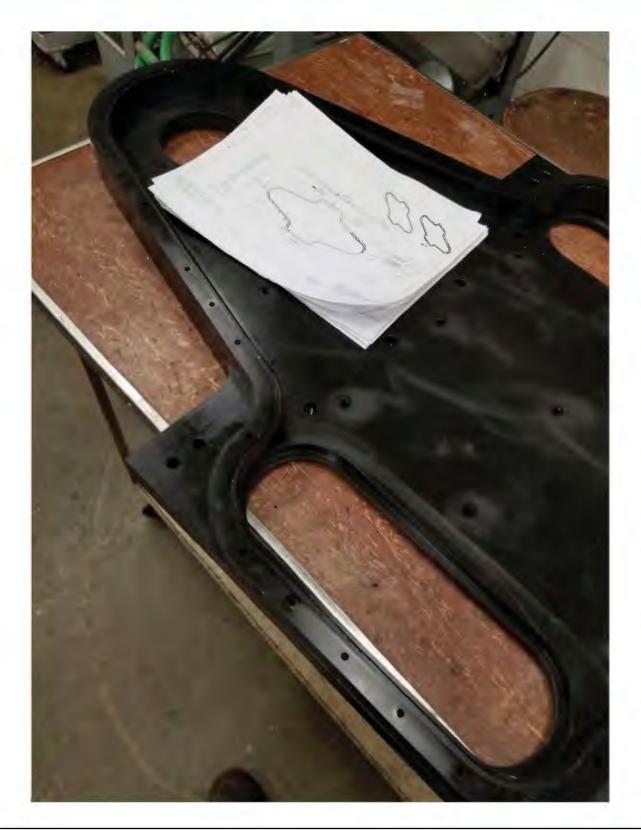


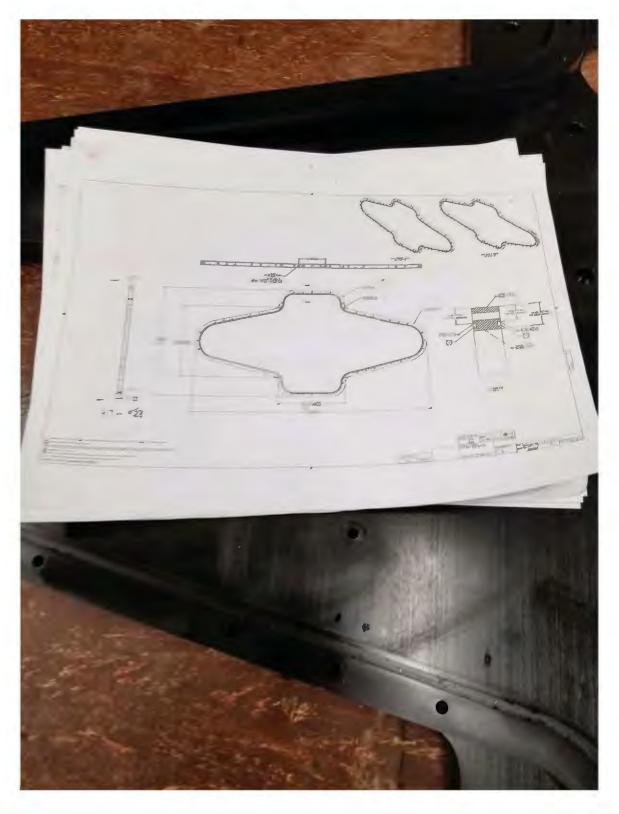


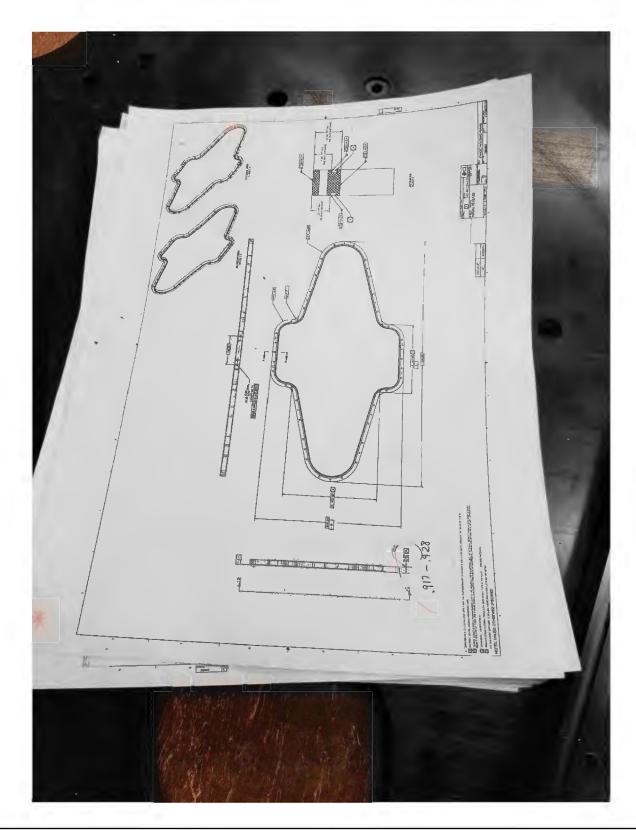


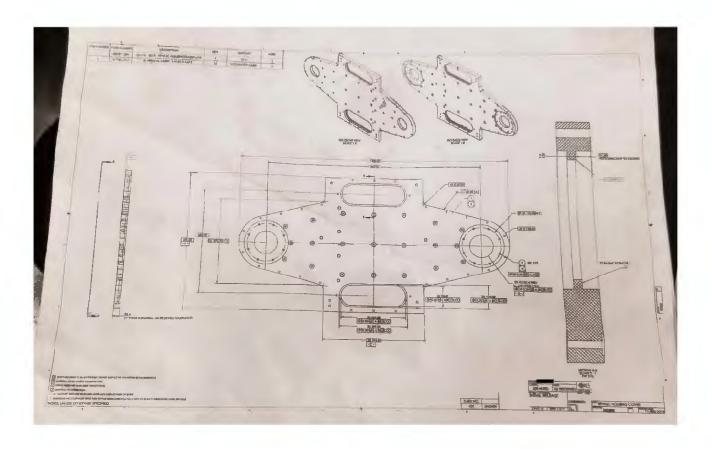
Report on Special Investigation of the University of Iowa Department of Physics and Astronomy – Machine Shop

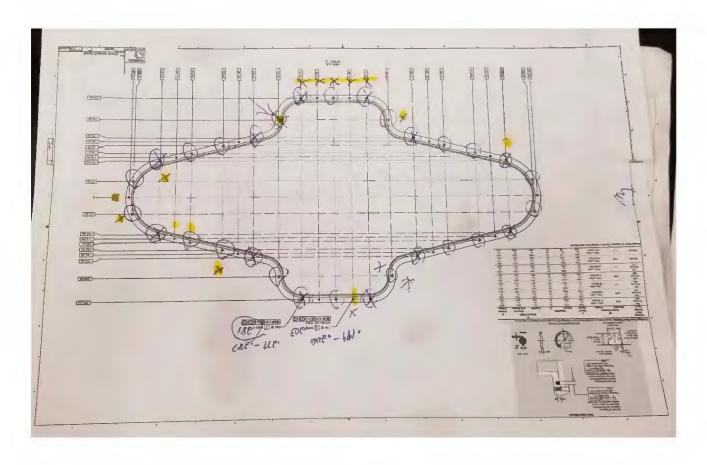


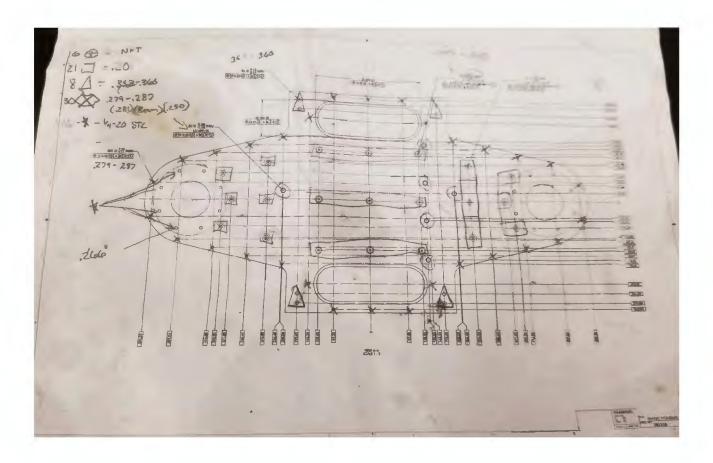












Copy of Purchase Order Number J0010F4C

# PURCHASE ORDER

Xometry (						P.O. No.   IIO10F46   Date:   11/27/2018	
Tu: Design Tech Williamsburg, IX 52361 United Stetes			Rainfax	Ship To: Fairfex, VAIZ2030 United States		PO number should appear in all packages and correspondence. Please submit all invinces or parmerinvoices@someov.com	
	r Quale It	)L	Ship bab		Shipping FedEx 21	g Method: Zav	
N/A			12/19/201	.0	1,000	,-,	
Requir Standar Notes	神 <b>rients</b> rd Inameは()	)rı	12(19/20)		1,	,-3	
Requir	rd Inapedil	rı Fari ID#*	12(19/201	Description	1,00000		sm.

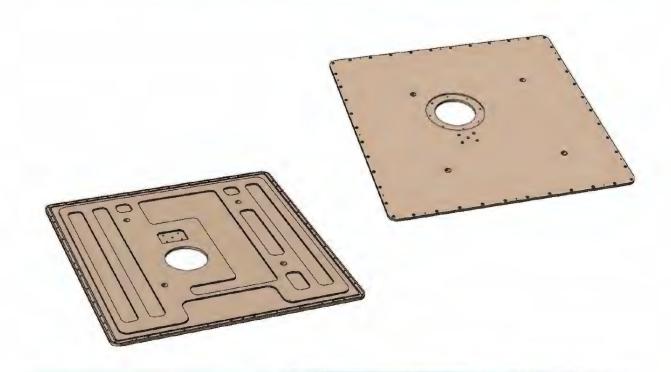
4 pproved By	Deta 11/27/2019

<sup>\*</sup> Ship Decembers to the detect which Xamery expects you to ship the parts. All shipments must receive an origin scenter, when you need to depart and receive an origin scenter, with a Xamerry provided part 10 and receives are equivalent to the part number and received in the CNO or PDF file unless stared alterwise.

If the Please submit all invoices to partner trypicas ignometry com. For serms and conditions, please see the Fartner Manufacturing Saw lices Agreement: <u>Hitps://www.sometry.com/y-andorderns-of-ser</u> lices.

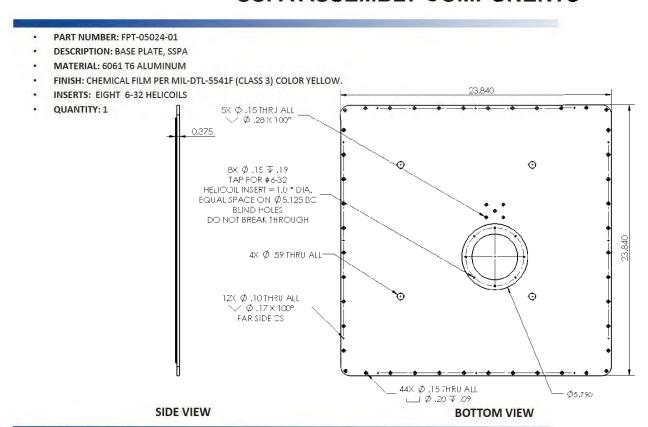
Copy of Purchase Order Number J0010F4C

# SSPA ASSEMBLY BASE PLATE



Copy of Purchase Order Number J0010F4C

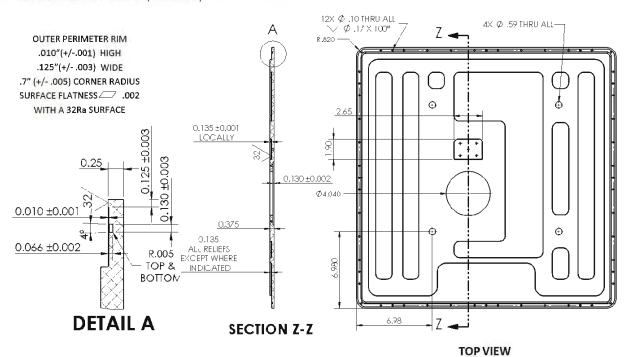
# SSPA ASSEMBLY COMPONENTS

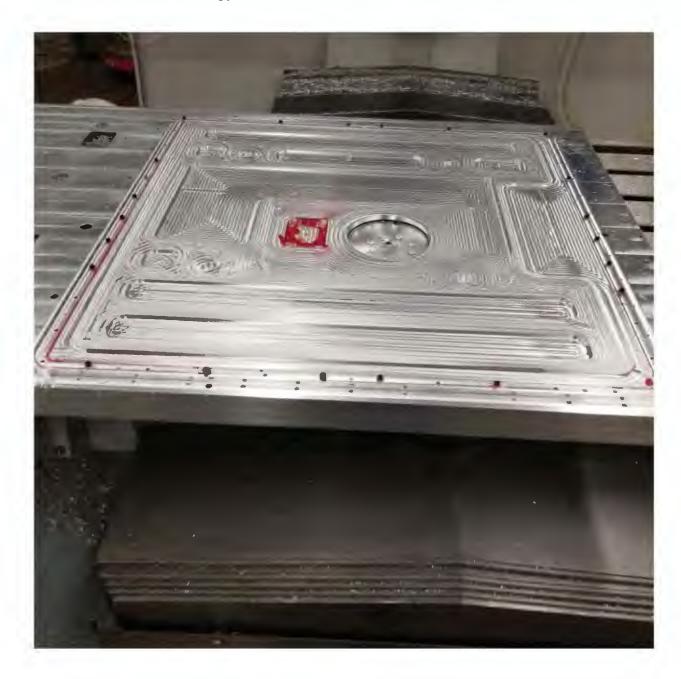


Copy of Purchase Order Number J0010F4C

# SSPA ASSEMBLY COMPONENTS

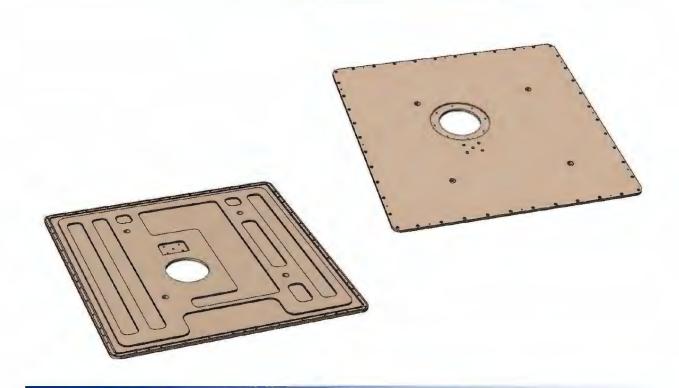
PART NUMBER: FPT-05024-01 (CONTINUED)





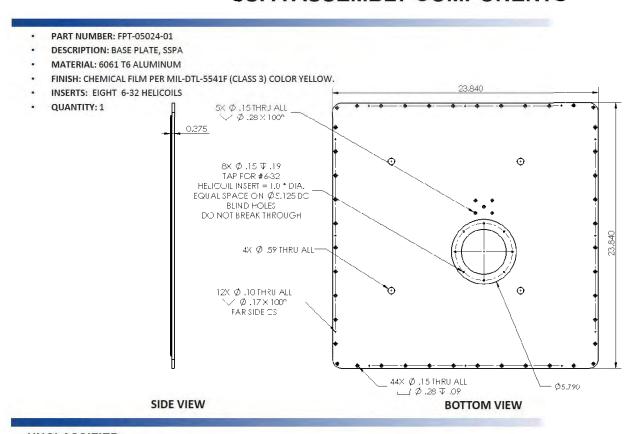
Copy of Purchase Order Number J0010F4C

# SSPA ASSEMBLY BASE PLATE



Copy of Purchase Order Number J0010F4C

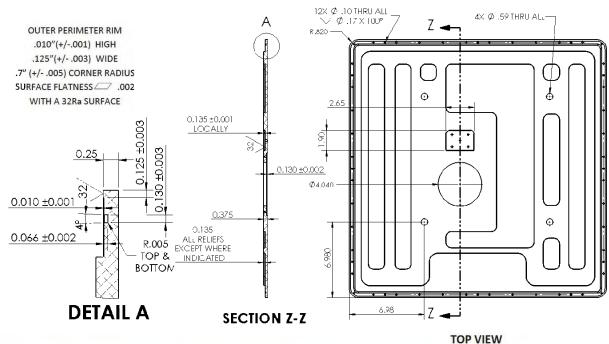
# SSPA ASSEMBLY COMPONENTS

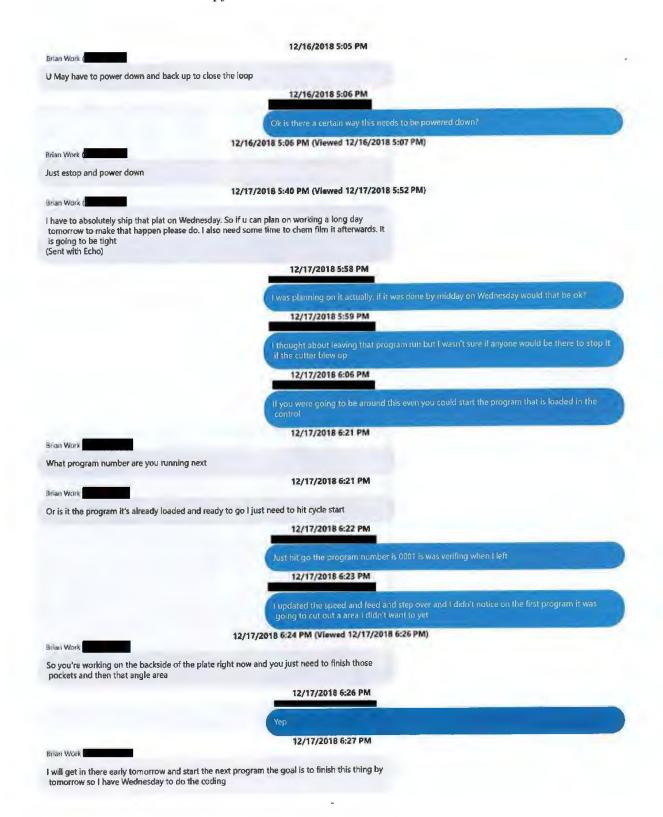


Copy of Purchase Order Number J0010F4C

# SSPA ASSEMBLY COMPONENTS

PART NUMBER: FPT-05024-01 (CONTINUED)





Copy of Purchase Order Number J0013024

## PURCHASE ORDER



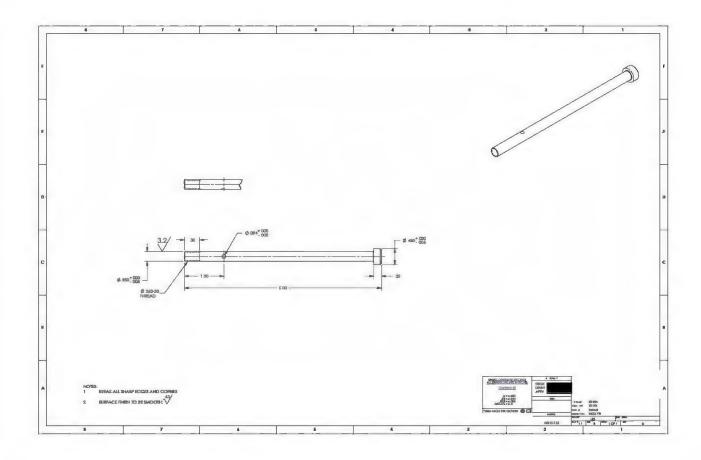
presonin	\$1,000,00
TOTAL	#I 000.00

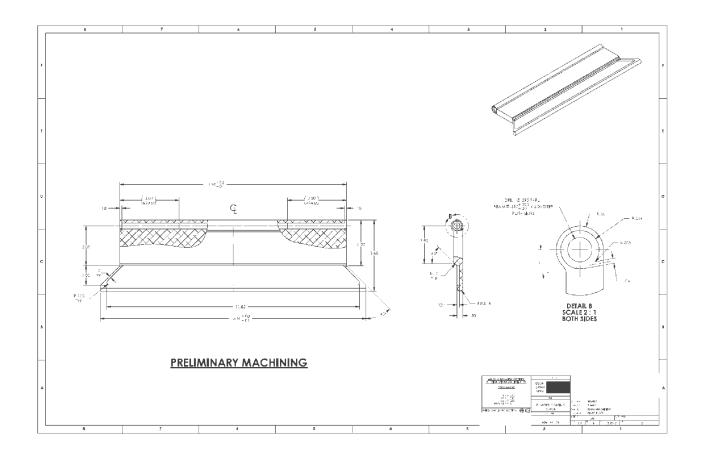
<sup>\*</sup> Ship Date refers to the date on Which Comerny explains you to ship the parts. All shipmens must televie an origin scan

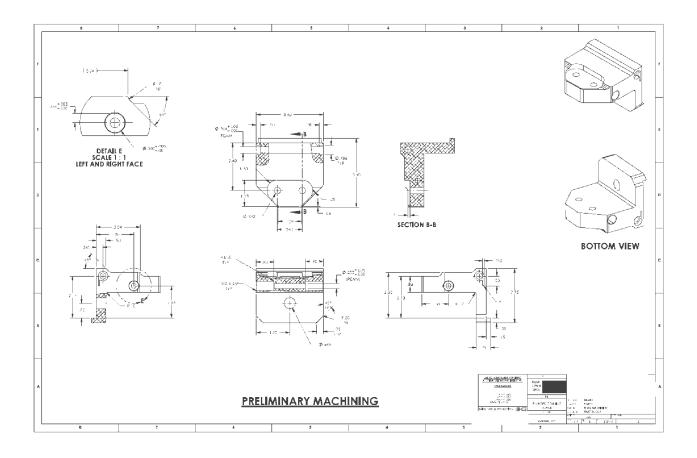
ApprovedBy	Deter 0308/2019
	03082013

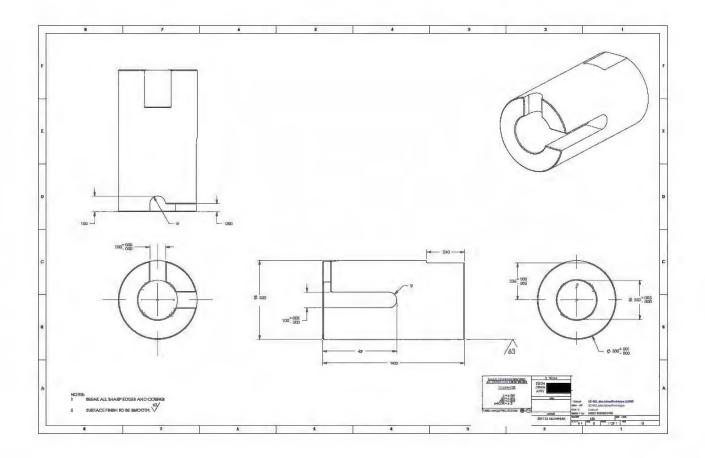
<sup>(</sup>e.g. they cannot be deposited in a drop box?)
\*\*The Xometry provided pair ID and revision are equit alent to the partitionable and revision in the D) D or PDF file. Unless stated otherwise

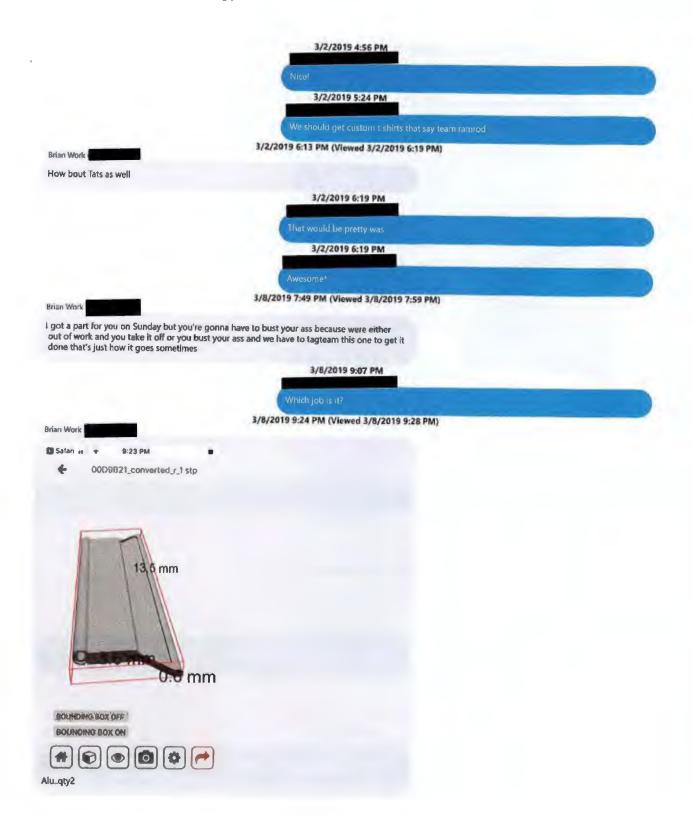
Potet Please submit all invoices to partner nyoces @sometry.com: For terms and conditions: please see the II intrien Manufacturing Services Agreement: https://www.xometry.com/v.endon.cemu-of-service/



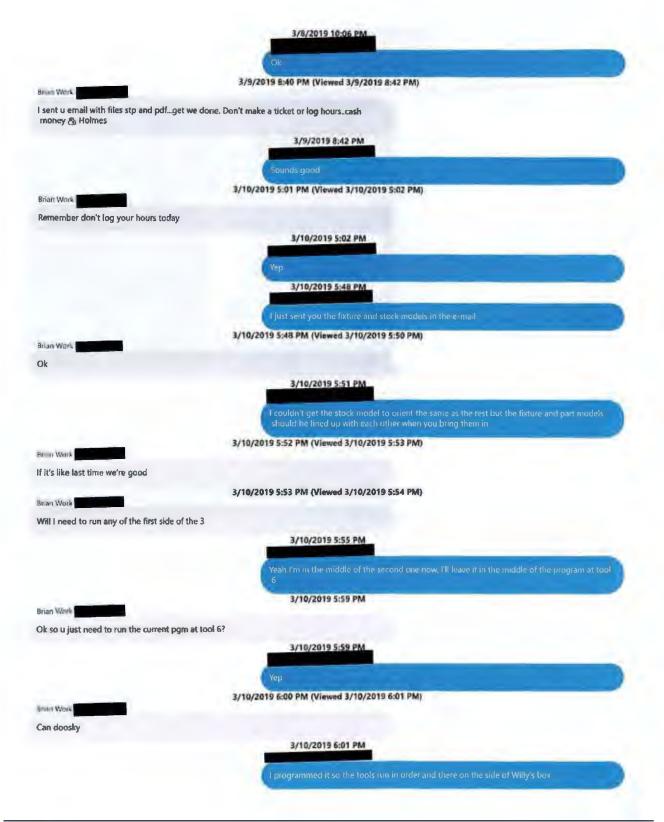












Copy of Purchase Order Number J001351F

#### PURCHASE ORDER

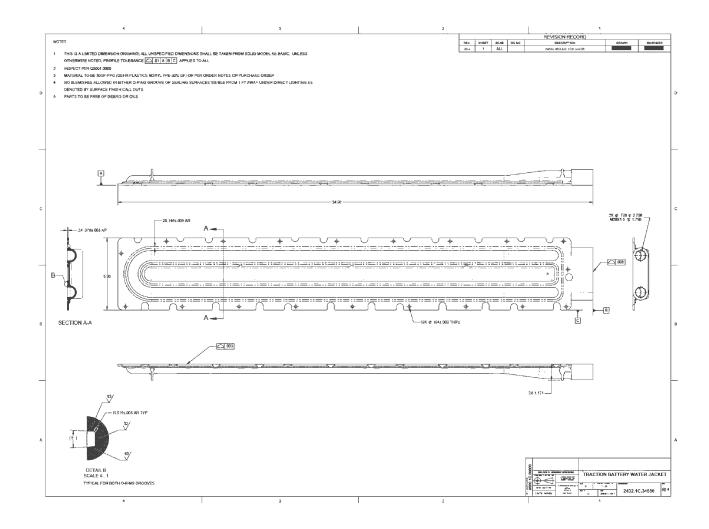


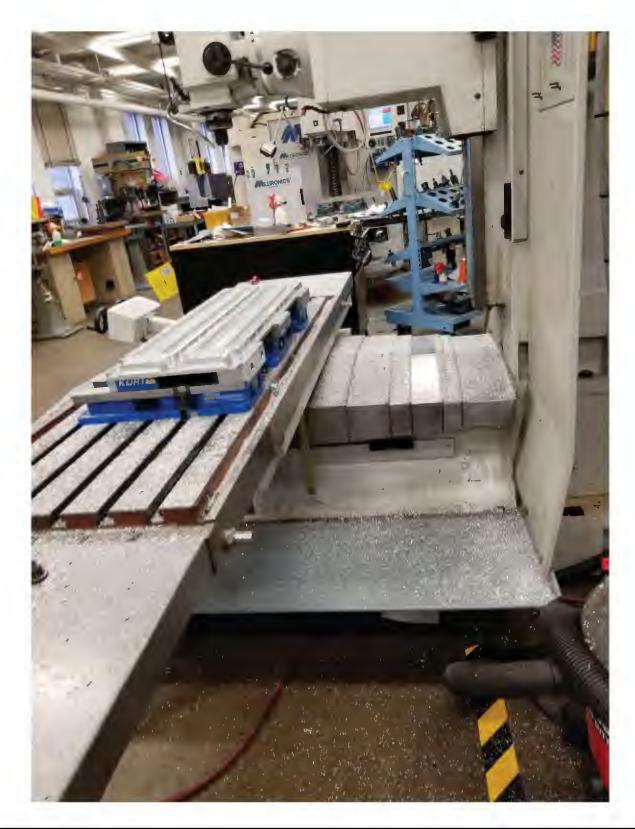
TOTAL

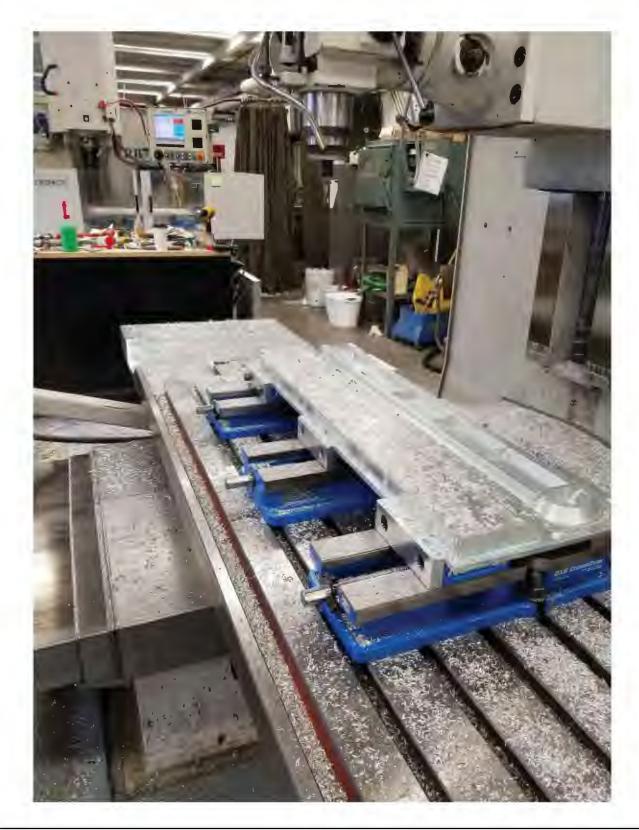
Ship Determines so the determine thich Xumetry expects you so ship the parts. All shipments must receive an origin soon teg, they cannot be deposited in a drop bot I WiThe Xumetry provided part ID and registron are equivalent to the part number and recision in the CAD or PDF file unless stated otherwise.

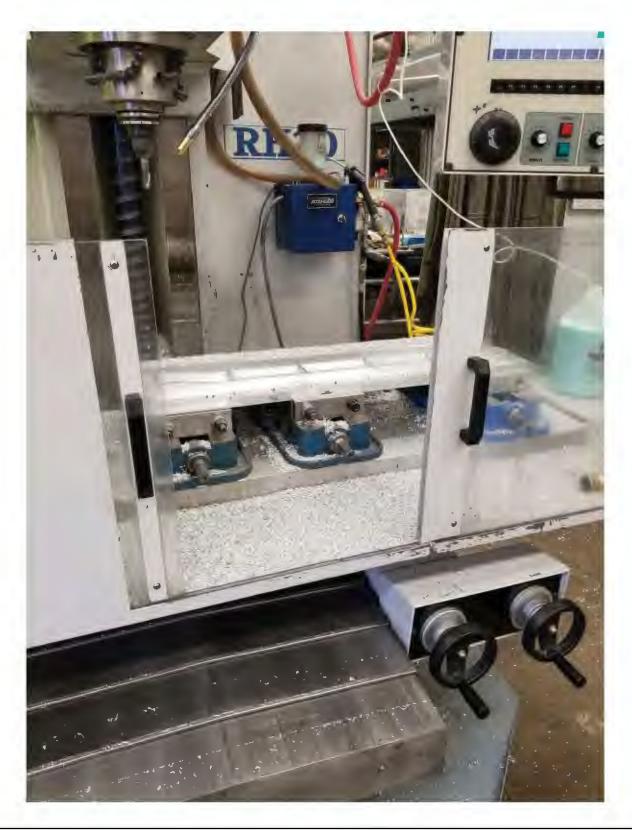
Hate, Please submin all in alk exist partnerint sices @xometry cam. For terms and conditions, please see the Partner Manufacturing Services Agreement, https://www.acmetry.com/viendorstamp-of-service/.

Daies US/33/2011E Approved Syl









	3/31/2019 6:02 PM	
	I just left, I got dales parts done	
Brian Work	3/31/2019 6:02 PM	
U da man		
	3/31/2019 6:03 PM	
Brian Work		
Can u send me a pic of where it's at plea		
	3/31/2019 6:10 PM (Delivered 3/31/2019 6:11 PM)	
	It just got done	
Brian Work	3/31/2019 6:12 PM (Viewed 3/31/2019 6:13 PM)	
Pic please		
	3/31/2019 6:15 PM	
Brian Work  If I emailed you a program can you set up поw it could be after tutoring	3/31/2019 6:17 PM  p a 3/32 and mill and run it for me doesn't have to be  3/31/2019 6:18 PM  Sure	
	3/31/2019 6:18 PM (Viewed 3/31/2019 6:19 PM)	
What time u be back in lab		
www.come.orge.back.iu.iab	3/31/2019 6:19 PM (Viewed 3/31/2019 6:20 PM)	
Brian Work	3/31/2017 0.13 FM (VIERRED 3/31/2013 0.20 FM)	
Tool#4 will be 1/16 ball instead		
Brian Work	3/31/2019 6:20 PM	
Just touch it off top of part		
	3/31/2019 6:20 PM	
	So you want tool 4 and it to be a 1/16 ball	
	So you want tool 4 and 16 to be 8 1/10 ball	

Copy of Purchase Order Number J0016DED

## PURCHASE ORDER

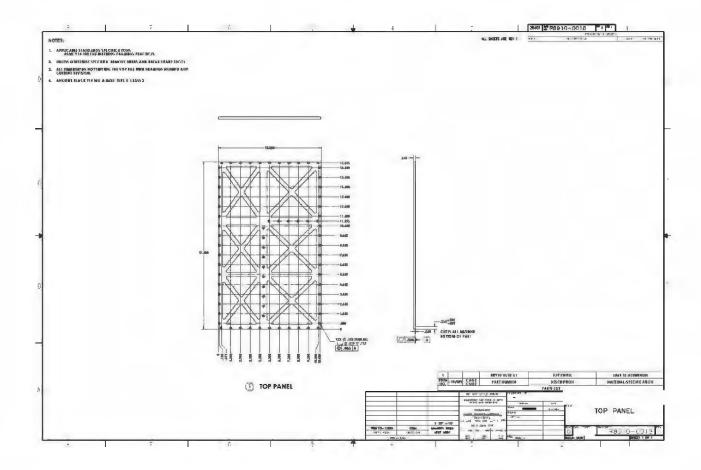
	1.4	Ma	me	tru		P.O. No 1001608		
			ui <del>inum, Mili</del> n		0.00	Date: .03/03/20		
fo: D9sign William United	sburg, IP 5	X851	San An United	tonio, TX. 78237		I number should a I packages and prespondence 645e submicall inv antherinvo ces©xor	nices by	
Partner Quale (D:			Ship Date 08/15/2015	Ship Date: Shippin 08/15/2019 UPS Star		ng Mezhod: ndard Cwarnight		
	ements rd inspectio	PFI						
Notes N/A								
lt em	Code	Fort ID+	Order ID	Description			Qh <sub>1</sub>	
,	ence.	0) OR BOW	0865F-1505E	0869F 1505E R8910-0008 REV_I STEP  Material Aluminum 50617E Finish Standard Features Tolerances gradiana to numley 102 him locations Inspection Requirement Standard inspection Not es  ***********************************				
						sugranu	\$150.00	
						TOTAL	\$750.00	

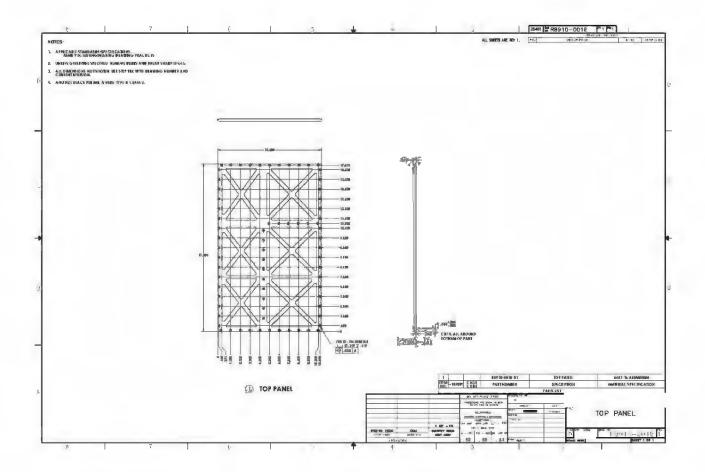
\* Simp Date refers to the date on which Cometry expects you so this the parts. All shipments must receive an origin scan Legither cannot be deposited in a drop box.)

\*\*\*The Cametry provided part ID and revision are equivalent to the part number and revision in the CAD of PDF file, unless stated otherwise.

Note: Please submit all invoices to partner my loss@zomstry.com. For terms and conditions, please see the Partner Manufestoring Services Agreement https://www.zometry.com/vendorsems-of-service/.

A per president	Date: 0.8/07/3019
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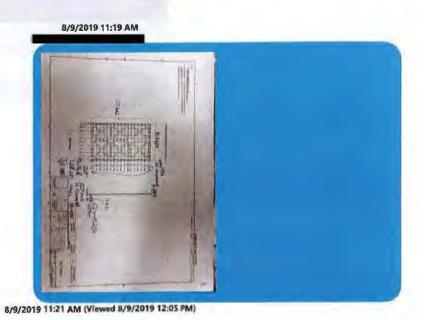


Copy of Purchase Order Number J0016DED



Brian Work

Need close up of inspection it self



Brian Work
Thanks buddy

Brian Work

Brian Work

8/9/2019 11:49 AM (Viewed 8/9/2019 12:05 PM)

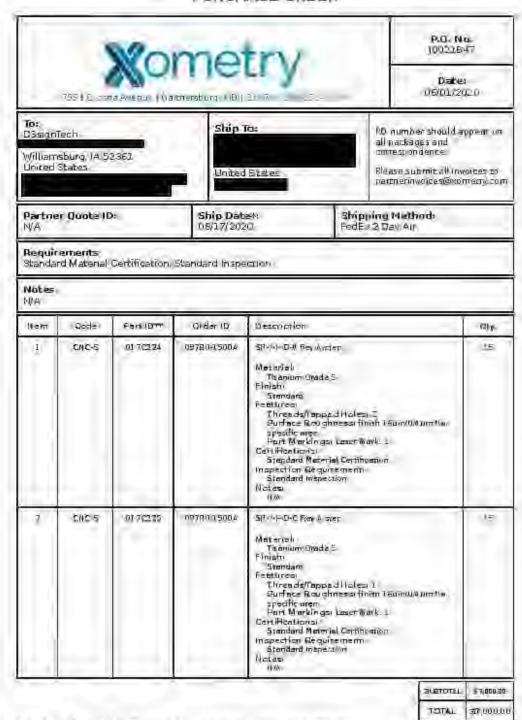
Vf2 getting ready to rock?

8/9/2019 11:50 AM (Viewed 8/9/2019 12:05 PM)

Maybe try Rs from Willies pc...if ur not sure I'll do it Monday

Copy of Purchase Order Number J0021B47

#### PURCHASE ORDER



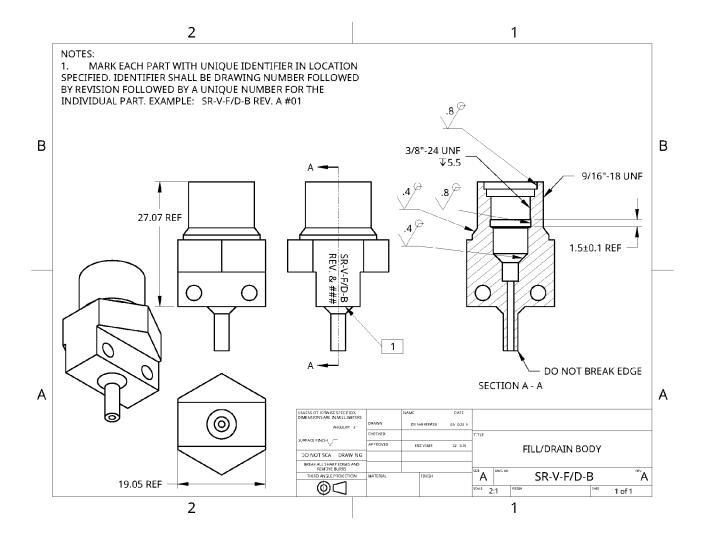
\* Skip Date refere to the date on which Kometry, apied a year or ship the parts All chipments must receive an intelligence. Very They cannot be deposited in a drop bod?

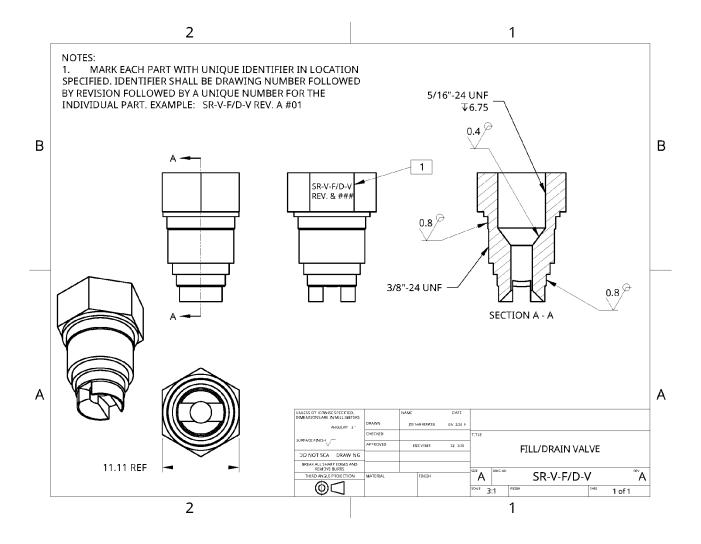
Copy of Purchase Order Number J0021B47

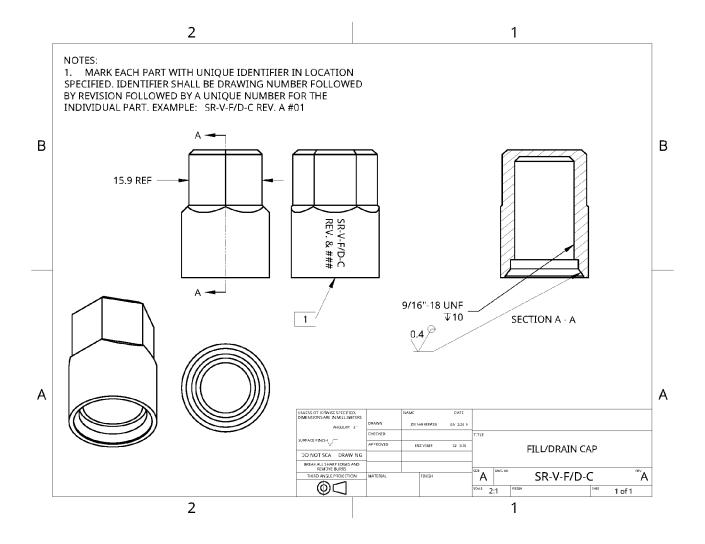
Note: Please submit all invoices to partnerinvoices@xometry.com. By accepting this Purchase Order, you are acknowledging that you have read and are accepting our terms and conditions as described in our Partner Terms and Conditions: <a href="https://www.xometry.com/partner-terms-and-conditions">https://www.xometry.com/partner-terms-and-conditions</a>.

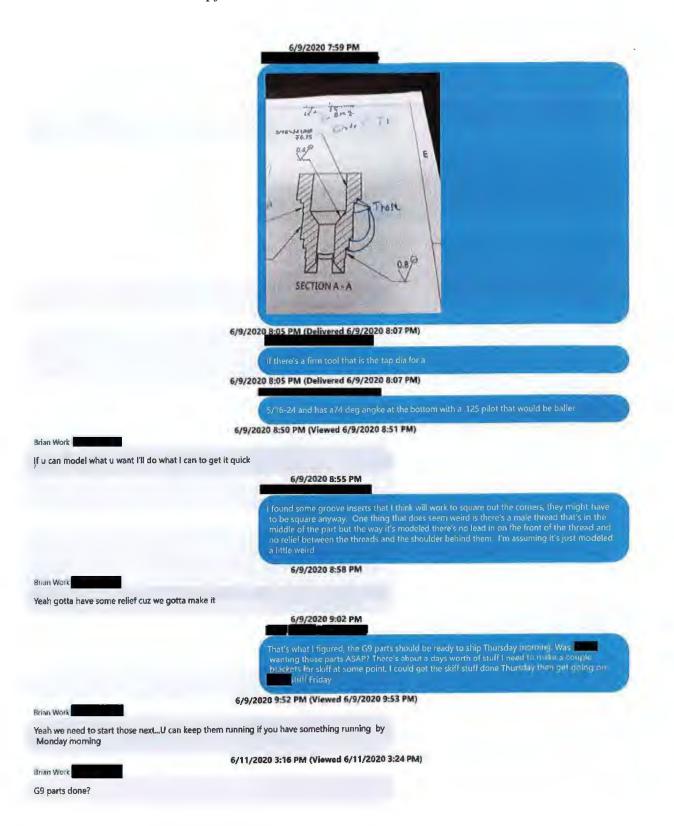
Approved By:	<b>Date:</b> 06/01/2020
	06/01/2020

<sup>\*\*</sup> The Xometry provided part ID and revision are equivalent to the part number and revision in the CAD or PDF file, unless stated otherwise.



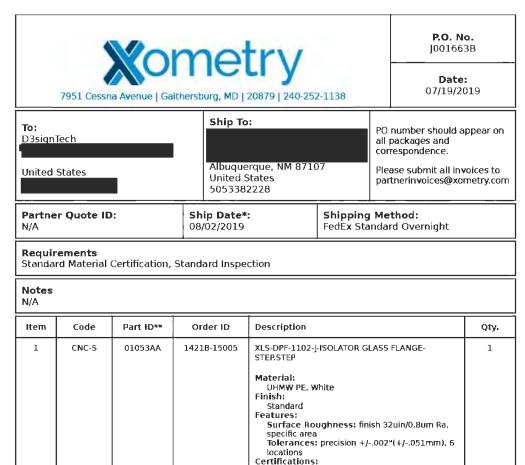






Copy of Purchase Order Number J001663B

#### **PURCHASE ORDER**



SUBTOTAL	\$1,102.63
TOTAL	\$1,102.63

<sup>\*</sup> Ship Date refers to the date on which Xometry expects you to ship the parts. All shipments must receive an origin scan

Standard Material Certification Inspection Requirement: Standard Inspection

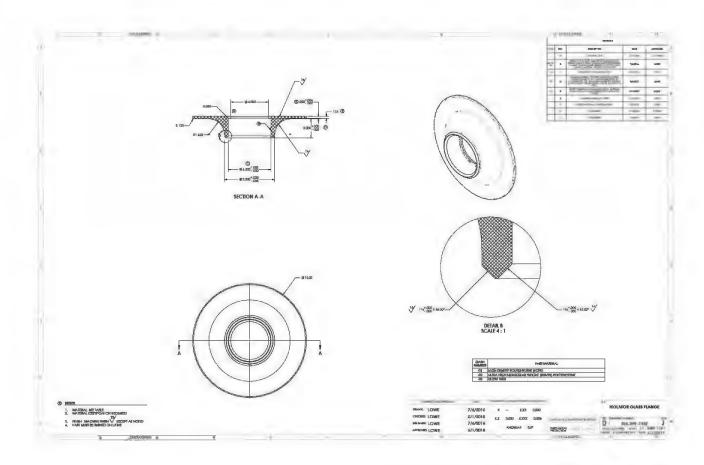
Please note drawing for lowest surface finish and tolerances. \*\*\*BEST EFFORT ON 16uin SURFACE FINISH; TARGET IS 32uin\*\*\* \*\*\*PART MUST BE DONE ON A LATHE\*\*\* Traceability

Note: Please submit all invoices to partnerinvoices@xometry.com. For terms and conditions, please see the Partner Manufacturing Services Agreement: https://www.xometry.com/vendor-terms-of-service/.

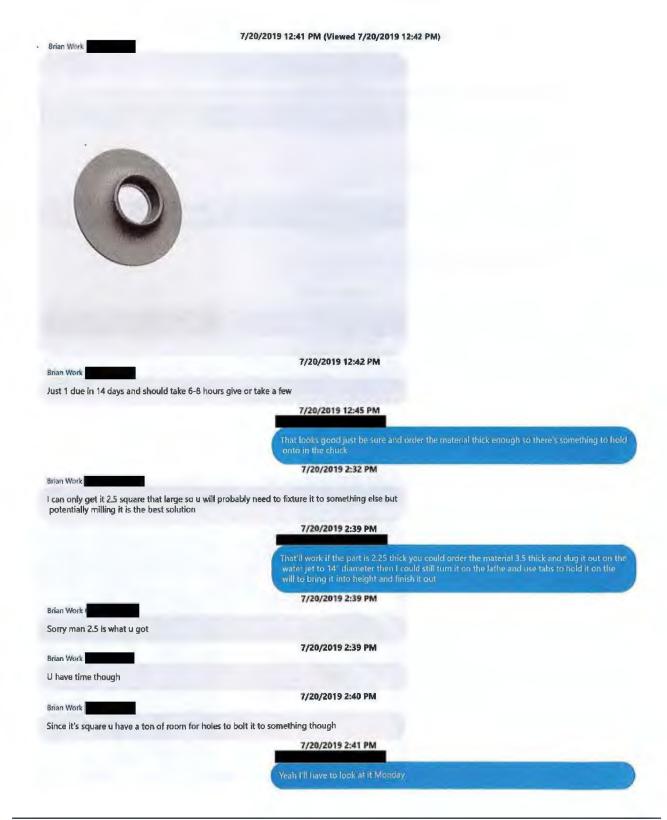
Approved By:	Date: 07/19/2019
	I

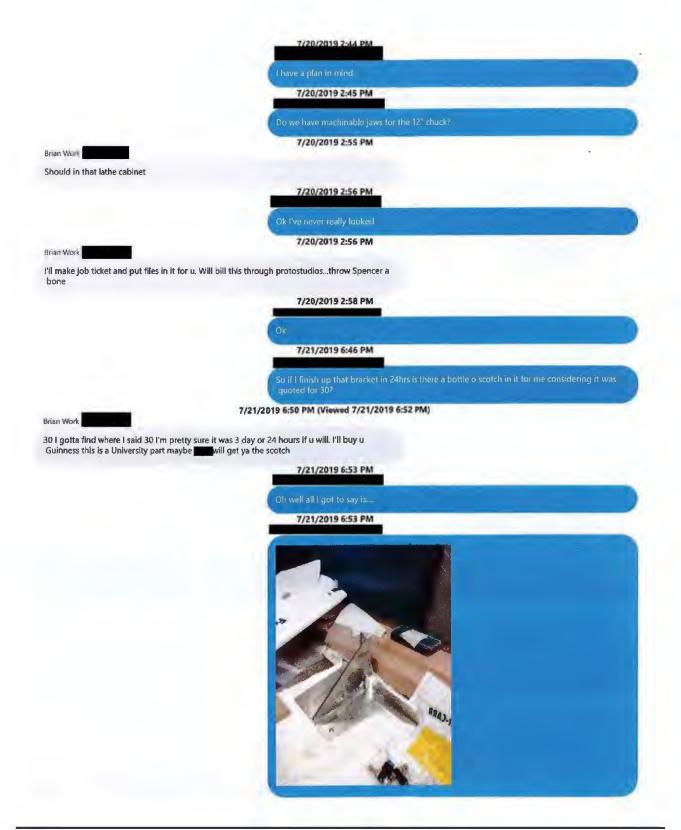
<sup>(</sup>e.g. they cannot be deposited in a drop box)

\*\* The Xometry provided part ID and revision are equivalent to the part number and revision in the CAD or PDF file, unless stated otherwise



	7/20/2019 8:39 AM
	This week I was thinking I could work tomorrow through Wednesday 10ish hour days so I could have Thursday and Friday off because I have to have all my stuff out of my apartment by 9 Sunday morning
Brian Work	7/20/2019 8:41 AM (Viewed 7/20/2019 8:43 AM)
Sounds good to meu bout done wit	h that part and need more?
	7/20/2019 8:47 AM
	I might get it done tomorrow if not Monday for sure.  Atopped in and wants to change a couple things on the ring looking initials I made so if the tube is rinne I could do those or if there's other stuff and the machine is used up I could do that
Brian Work	7/20/2019 11:31 AM (Viewed 7/20/2019 12:18 PM)
Do you care if the work is Xometry wo are pretty easy in comparison to wha	ork so long as it is reasonable there are some parts that it you're currently doing I don't want to have to filter st a little bit I won't put you in a bad position it if I do he kick in the nuts
	7/20/2019 12:20 PM
	It doesn't really matter to me, I guess if the indexer Isn't available I don't really have much of a choice
Brian Work i	7/20/2019 12:24 PM (Viewed 7/20/2019 12:26 PM)
	exer today have at itneed machine to make some holes
	7/20/2019 12:27 PM
	I should probably focus on the current xom until it's done there's probably only half a day of indexer work to do so it wouldn't make much sense to set it up until the tube is done
Brian Work	7/20/2019 12:29 PM (Viewed 7/20/2019 12:30 PM)
Agreedtube should be done Tuesda	y probably
	7/20/2019 12:30 PM
	If there's a couple day job on xom I can do that
7. 34	7/20/2019 12:31 PM
Brian Work	
I got one for umaterial will be here I	Monday will send u files 7/20/2019 12:31 PM
	7/20/2019 12:31 FM
	Ok sounds good
Brian Work	7/20/2019 12:35 PM
It's a uhmw lathe part 12"fin diameter is a finish call out and uhmw likes sha Milltronics lathe	r 2.25 thick it may not have to be a large part but there arp tools plus u seemed interested in messing with
	7/20/2019 12:36 PM
	Ok that'll work







Copy of Purchase Order Number J00196AB

# PURCHASE ORDER

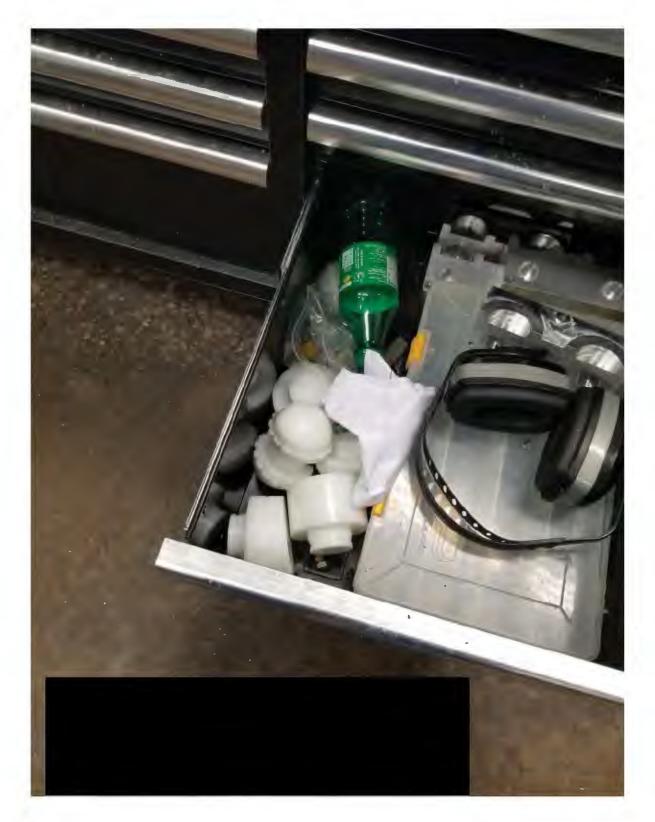
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Ta: D3sign William United	sburg la 5	2361.	Ship T Warsav Unilad	v, lid 46582		all päcka Girregoii Fleasa si	car should a ges and ndence ibmit all inv Wnicas@x///	olces to
Partne MA	r Quote (C	ń	55/g Date 10/22/201		Shippi FedEx 3	plug Method: x 1 Day Air		
	ements dinspectio	in						
Not≥ N/A								
Mem	Code	Fart (DTT	Urder ID	Description				-Zhri
1	CHC-5	OLEARER	19g01-15000 E10010ZET  Metericli UHMW FI Finish: Standard Inspection Standard (Notes)					<b>30</b>
	_			1			SUSTOTEL	\$3,500,00
							100CRS4-N	

\* Ship Date refers to the date un which X ometry, expense you to ship the parts, all shipments must receive an origin scan (signifies cannot be deposited in a drop bod).

\*\*The Xometry provided part ID and revision are equivalent to the part number and revision in the CAD or FDE file, unless stated atherwise.

Naxe: Please submit all incolless operation of es@xometry.com. For terms and conditions, please see the Berner Manufacturing Services Agreement: https://www.comstry.com/cendorrenns:of-service/

Approved By:	100 A/2013





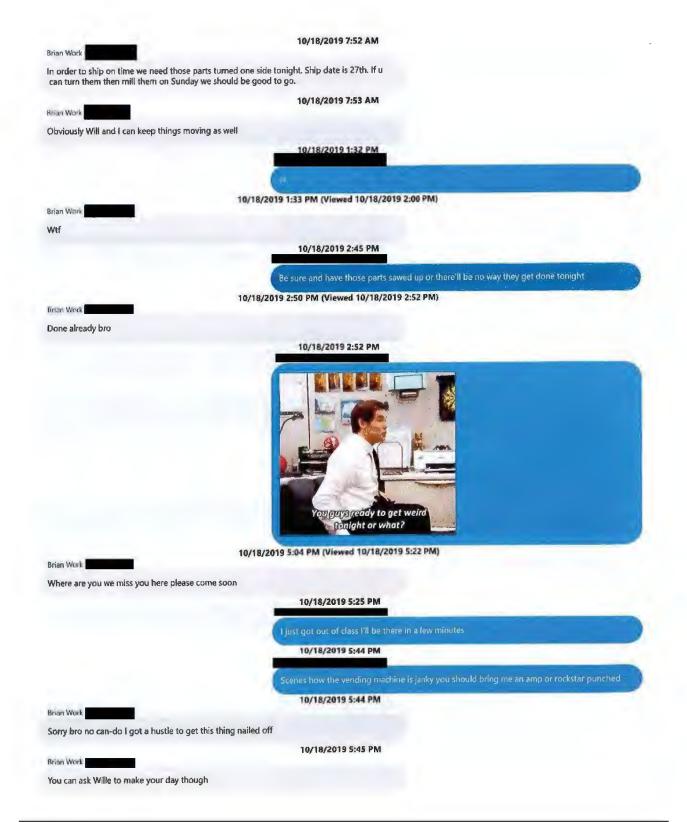


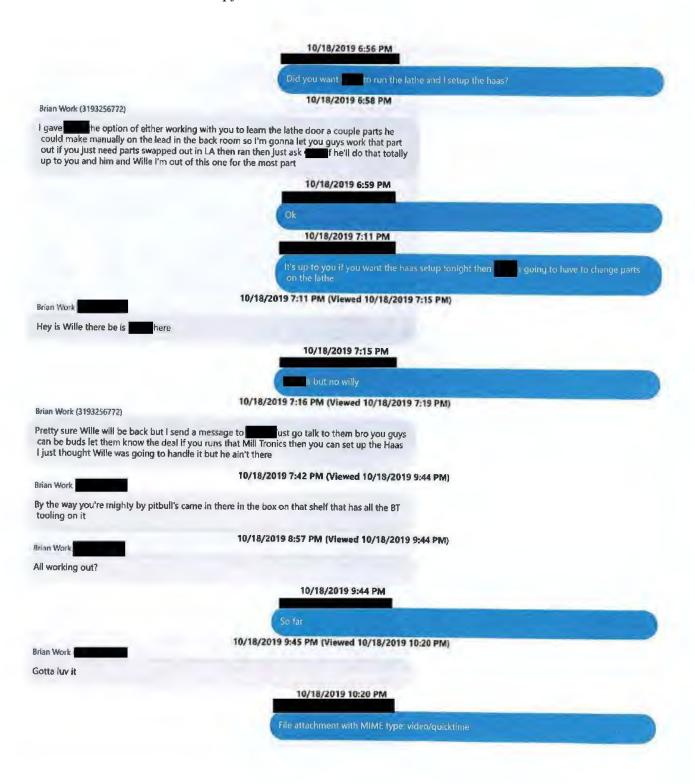


Brian Work	10/15/2019 8:10 PM (Viewed 10/15/2019 8:12 PM)
Btw and I got that Auger warn it tits out	rking so I think we add a spray bar to back of machine and
	10/15/2019 8:13 PM
	I like tits out
Brian Work	10/15/2019 8:17 PM
specially when running	
specially with the same of	10/15/2019 8:18 PM
	Top top to the time to the tim
	got some other programs made after it looks like to rough and finish the domes 45 min per it parts
rian Work	10/16/2019 6:59 AM (Viewed 10/16/2019 7:51 AM)
hat'll work	
	10/16/2019 7:29 AM (Viewed 10/16/2019 7:51 AM)
rian Work	The state of the s
lad an idea that we could just 3-D p we don't have to fuck with making o ust both device jobs on and go to t	print the buys jaws at the correct angle hopefully and then or putting the vice jaws or a vice at the 10° angle we could lown
	10/16/2019 9:40 AM
	Contraction of the Contraction o
	Using inaccurate fixturing yo save 1.5hr on a job we're going to have 40hrs in seems problematic but if you want to do it that way ok
rian Work	10/16/2019 10:07 AM
ah saw the jaws nbd	
	10/16/2019 10:08 AM
	I think there is a couple made out of 2" square stock sitting on the gray shelf by the drill press that would work well the standard ones may have issues with cutting into the jaw bolts
ian Work	10/16/2019 10:43 AM (Viewed 10/16/2019 11:14 AM)
eah I thought of that. I think I'll mak hemwe can just bolt them straight	e them at the angle so we don't need a sine vise to hold In to whatever Kurt vise and go
	10/16/2019 11:30 AM
	You could do that just make sure the tops of the jaws are perpendicular to the bores and put
	a hole at a known location that's parallel with the dia they'll be clamped on, you should put a couple slots in the tops of the jaws so we can put a dowel in them to align when bolting them into the vise
	10/15/2019 11:52 AM
	Thorate a clit around the flange of the modulum to the later of the second
	There's a slit around the flange of the parts that is angled and .015 at the top gonna need some small cutters for that
	10/16/2019 1:13 PM (Viewed 10/16/2019 1:25 PM)
an Work	

	10/16/2019 1:25 PM
	Sweet what was going on with them
	10/16/2019 1:26 PM (Viewed 10/16/2019 1:27 PM)
Brian Work	
It's an adapter u can pop outthey ha	ve SS fingers on them that u can bend back a little
	10/16/2019 1:27 PM
	Oh I see do they pull out of the pod harder?
	10/16/2019 1:30 PM
	I tried using the setting that touched off multiple tools in a row this last weekend and it would run the program but it moved really slow
	10/16/2019 1:32 PM
Brian Work	
Yes fo sho pull out harder have not h	
	10/16/2019 1:33 PM
	It was the tool offester thing z was moving down slow
P. Co. March	10/16/2019 1:34 PM (Viewed 10/16/2019 2:23 PM)
Brian Work  Been using both np	
been using both hp	10/16/2019 7:53 PM (Viewed 10/16/2019 8:05 PM)
Brian Work	14/14/2013 1.33 FM (VIEWED 15/15/2013 0.031 M)
How many hours u planning on this w	eekend?
	10/16/2019 8:06 PM
	9-6 on Sunday
	10/16/2019 8:28 PM
	I thought about working Friday and making 3 sets of jaws and putting the third vise in the hass and getting it setup then someone could come in and change parts every couple hours
	10/16/2019 8:31 PM (Viewed 10/16/2019 8:32 PM)
Brian Work	
Every bit would helphoping to have s	soft jaws done hoping u can do lathe part
Brian Work	10/16/2019 8:31 PM (Viewed 10/16/2019 8:32 PM)
We'll get it going and we can keep it g	poing
	10/16/2019 8:46 PM
	That works to
	10/17/2019 1:05 PM (Viewed 10/17/2019 1:07 PM)
Brian Work	10/17/2015 1:05 PM (VIEWED 10/17/2015 1:07 PM)
If u can get lathe parts going then get things going	can keep them going. What time can u be in here to
	10/17/2019 1:08 PM
	5:30 tomorrow I have class until 5:20

Junday all of the one side will be done and soft jaws ready to begin milking. Stw we don't have to do anything of the super tiny geometry  10/17/2019 1:10 PM  Lishould take 3 min to run the lathe side so I should be able to get them all done termorowing it.  10/17/2019 1:11 PM (Viewed 10/17/2019 1:41 PM)  Lishould take 3 min to run the lathe side so I should be able to get them all done termorowing it.  10/17/2019 8:39 PM  Lishould take 3 min to run the lathe side so I should be able to get them all done termorowing it.  10/17/2019 8:39 PM  Lishould take 3 min to run the lathe side so I should be able to get them all done termorowing it.  10/17/2019 8:39 PM  Lishould take 3 min to run the lathe side so I should be able to get them all done termorowing it.  10/17/2019 8:39 PM  Probably only need to mar them 1/8m longer than the model; If just take enough of the end to get them to done no get them to do get them to get	Brian Work	10/17/2019 1:08 PM (Viewed 10/17/2019 1:09 PM)
Its hould take 3 min to run the lathe side so I should be able to get trem all done tomorrow night  10/17/2019 1:11 PM (Viewed 10/17/2019 1:41 PM)  Week  10/17/2019 8:38 PM  (F)	Sunday all of the one side will be do	one and soft jaws ready to begin milking. Shy we don't
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Copy of Purchase Order Number J00196AB



Copy of Purchase Order Number J00196AB

University of Iowa - Protostudios

Coralville, IA 52241 US



# INVOICE

ILL TO Brian Busch D3signTech LLC iNVOICE # 1252 DATE 11/08/2019 ©UE DATE 12/08/2019 □ERMS Net 30

ACTIVITY	QTY	RATE	AMQUNT
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	1	936.00	936.00
Frotostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	0.15	936.00	140.40
Product [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19		780.00	780.00
Frotostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19	0.15	780.00	117.00
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1809 - ProtoStudios ball parts - 10/27/19	1	936.00	936.00
Frotostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1809 - ProtoStudios ball parts - 10/27/19	0.15	936.00	140.40
	PAYMENT BALANCE DUE		3,049.80 <b>\$0.00</b>

#### Warranty/Indemnification

All product and services delivered are delivered to Client at Client's sole risk and are "as is" without warranties of any kind, either express or implied, including all implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, and any warranties arising from a course of dealing, usage or trade practice.

Copy of Purchase Order Number J0019434

# PURCHASE ORDER

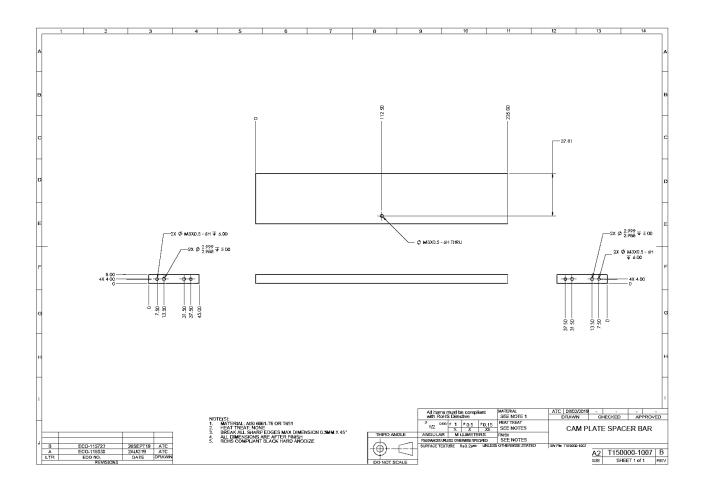
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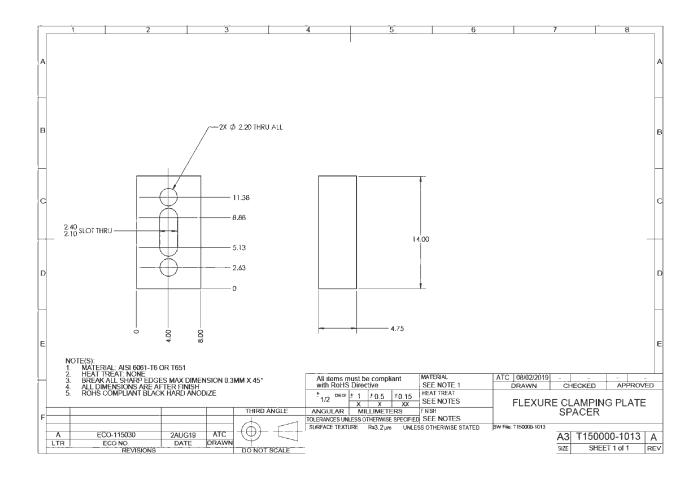
\*\* Ship Described to the date on which Kometh, expects you to ship the parts. All entrements must receive an origin stant (e.g. they cannot be deposited in a drop box?

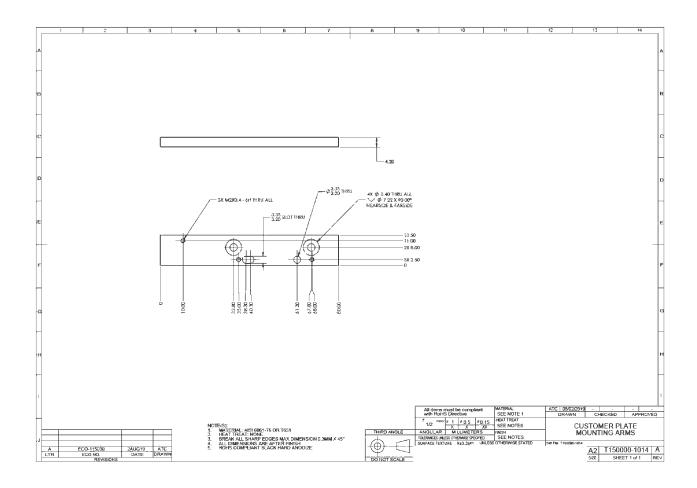
\*\*\*The Xometry provided part (D and revision are equivalent to the part number and revision in the CAD or PDF file, unless stared otherwise.

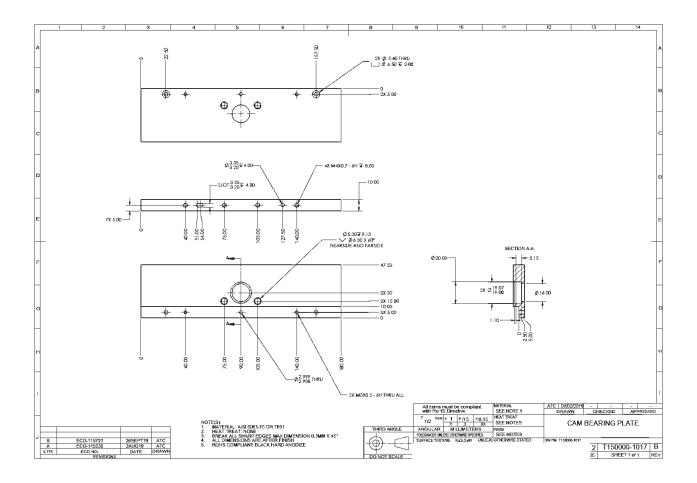
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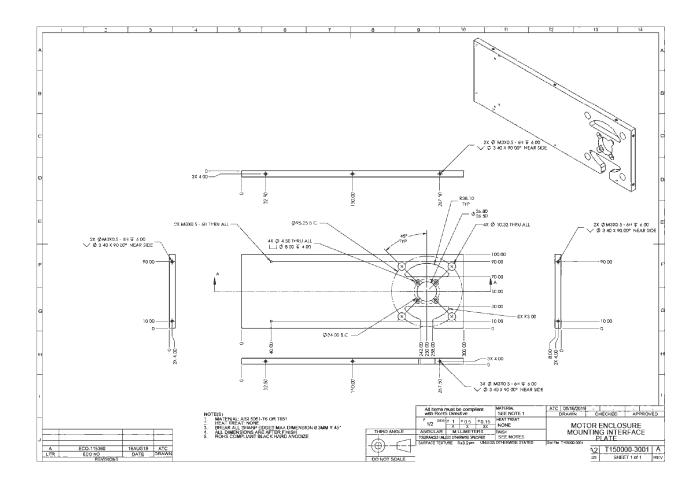
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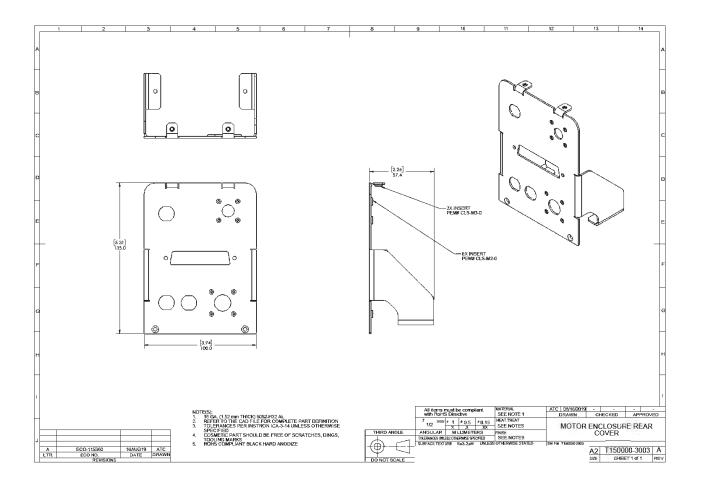


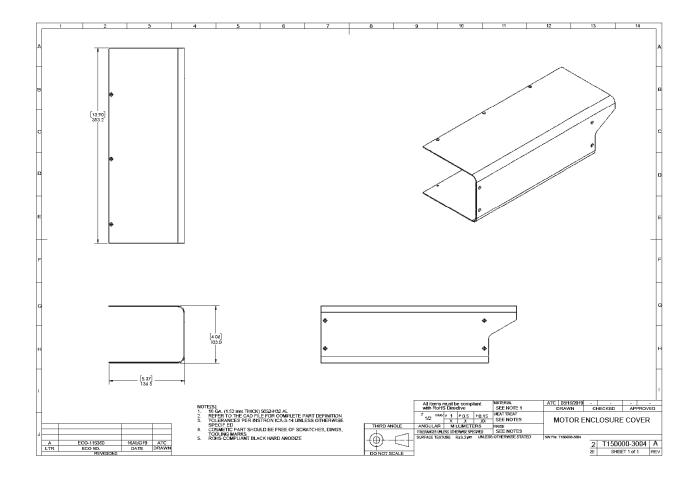


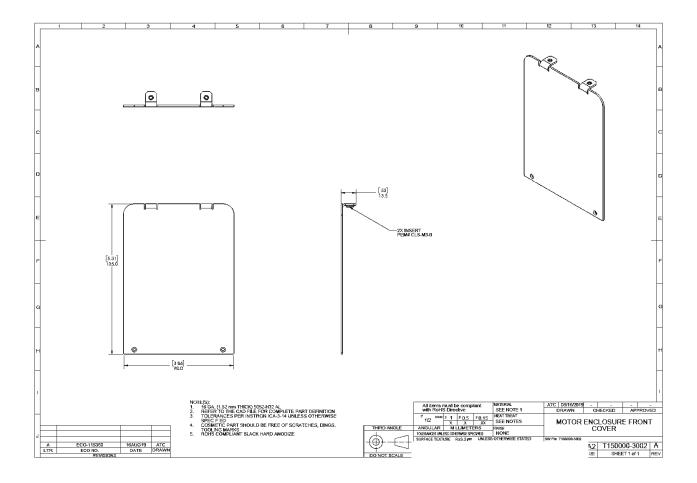


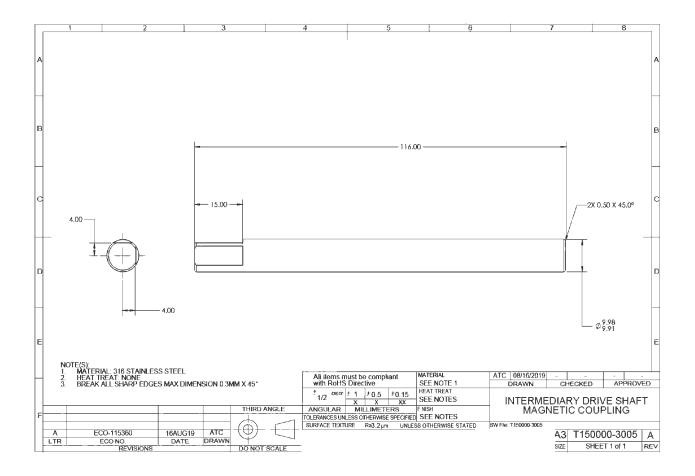


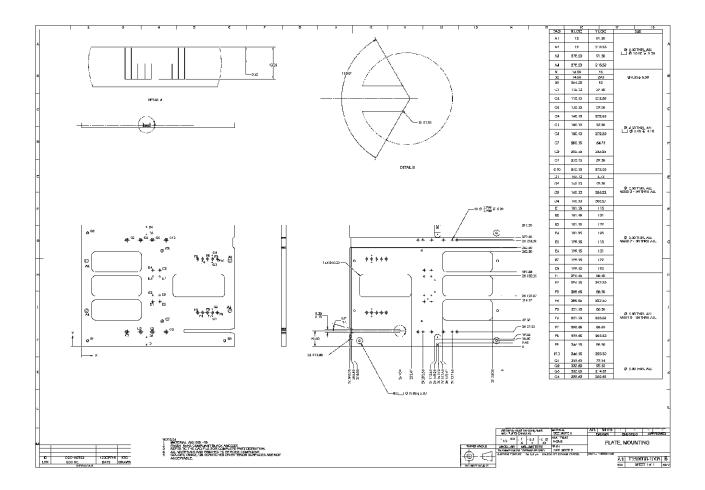


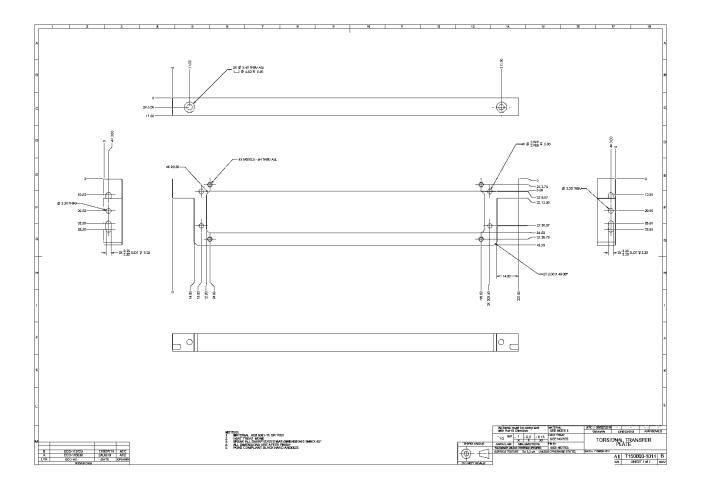


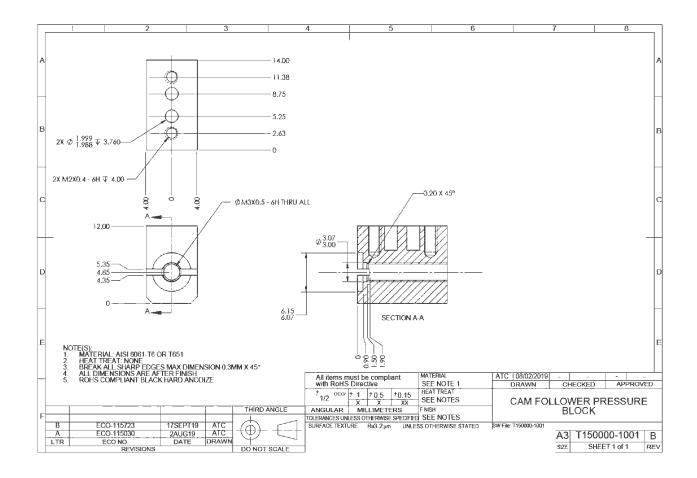


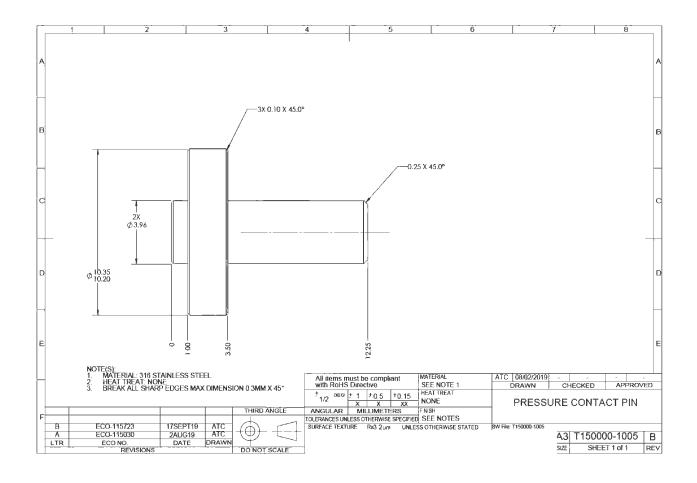


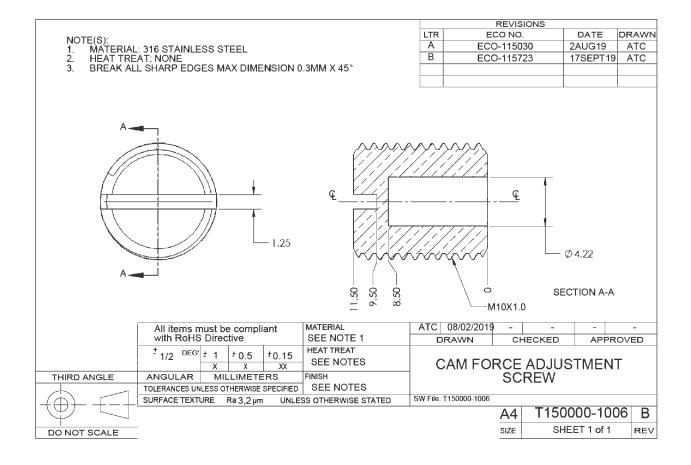


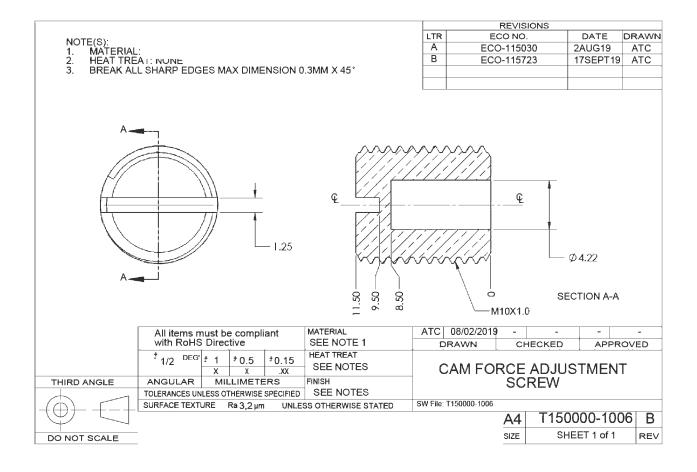


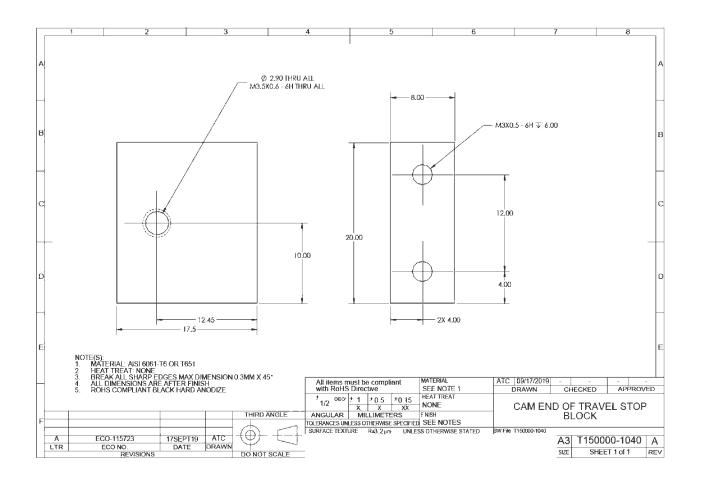


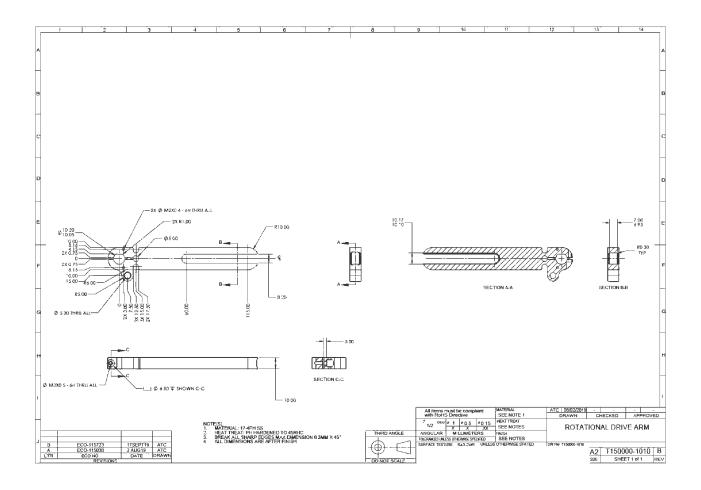


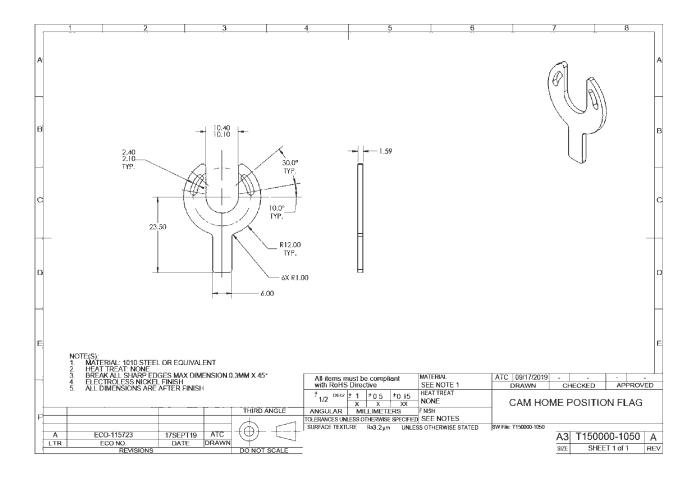


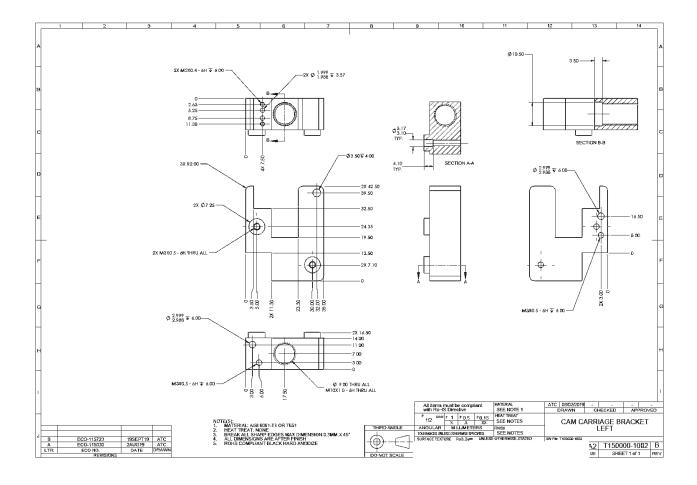


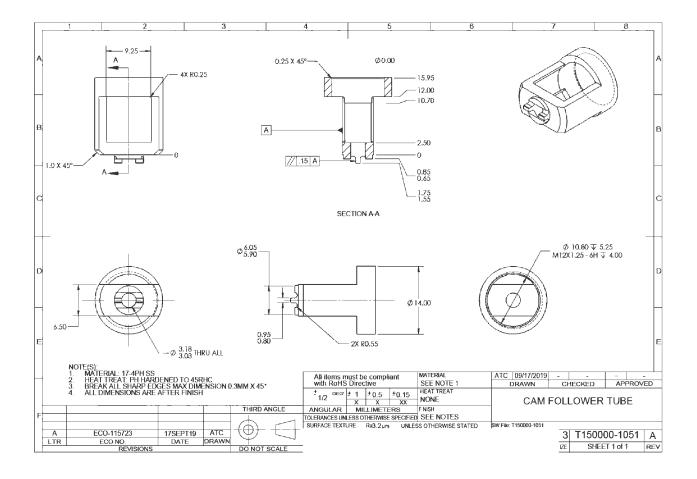


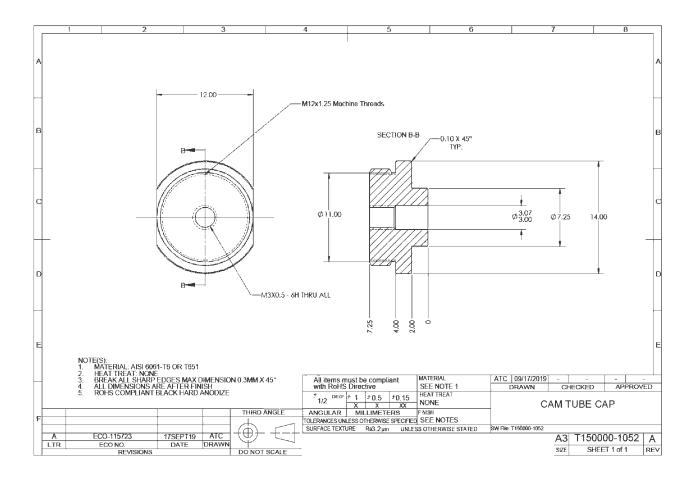


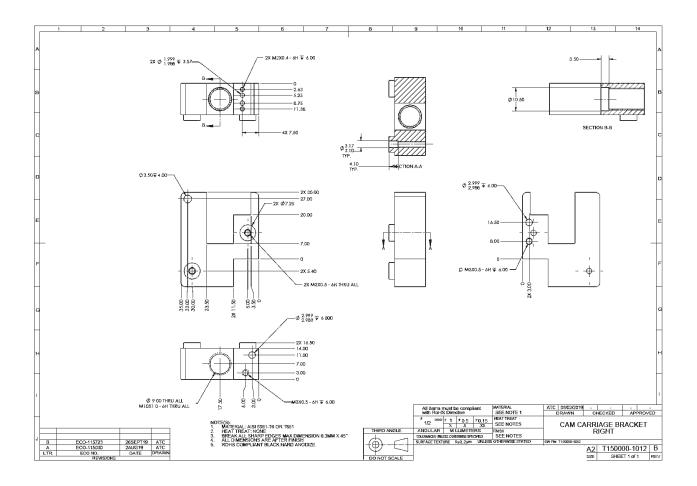


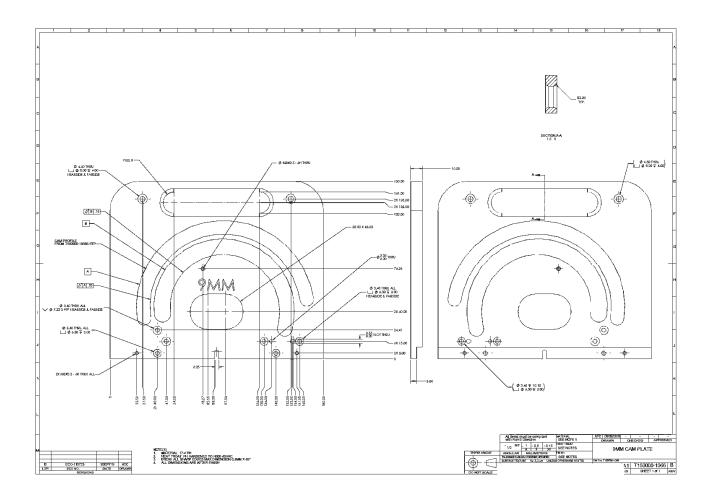


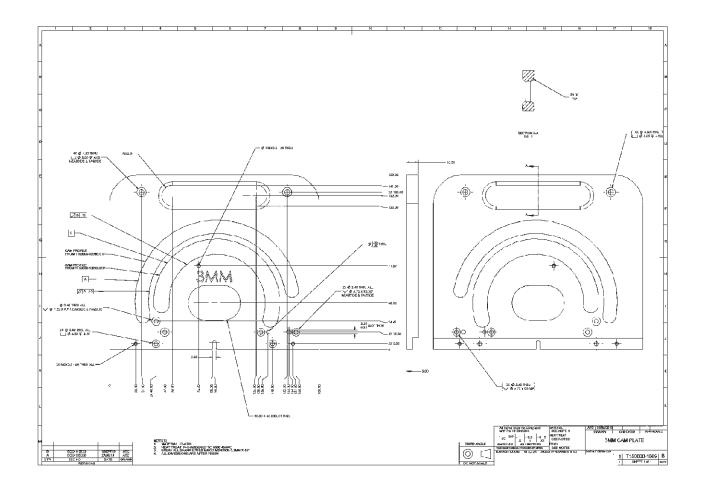


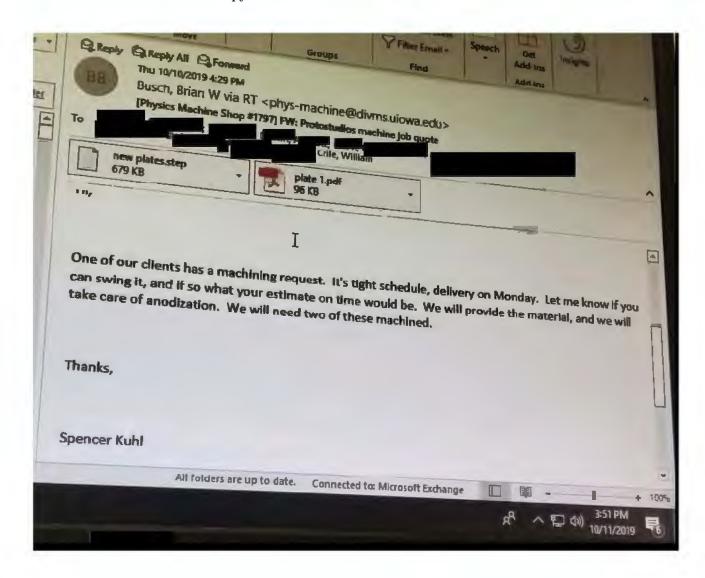


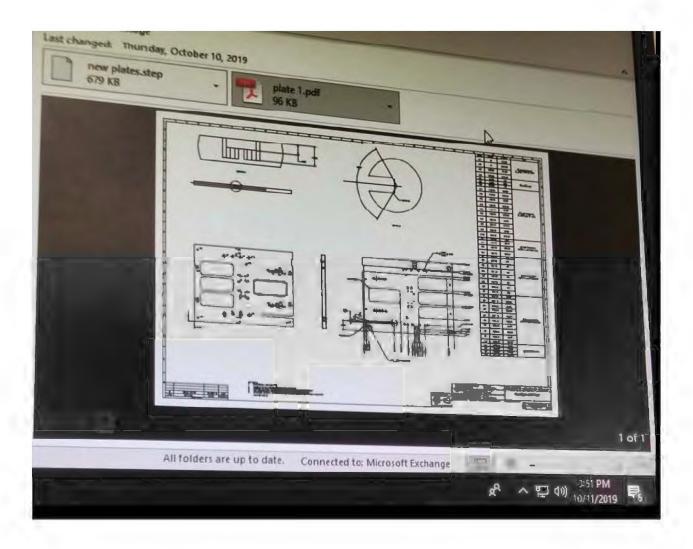


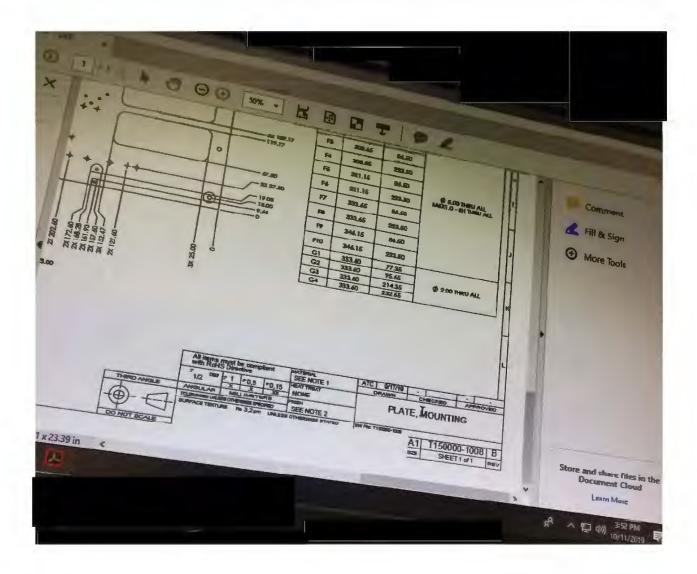


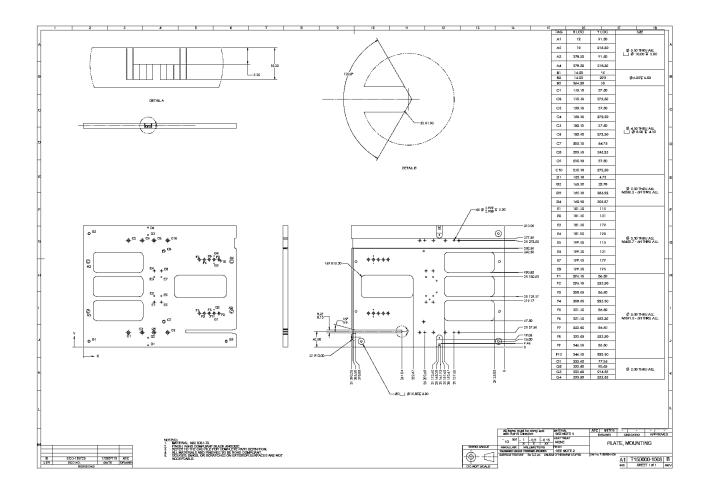




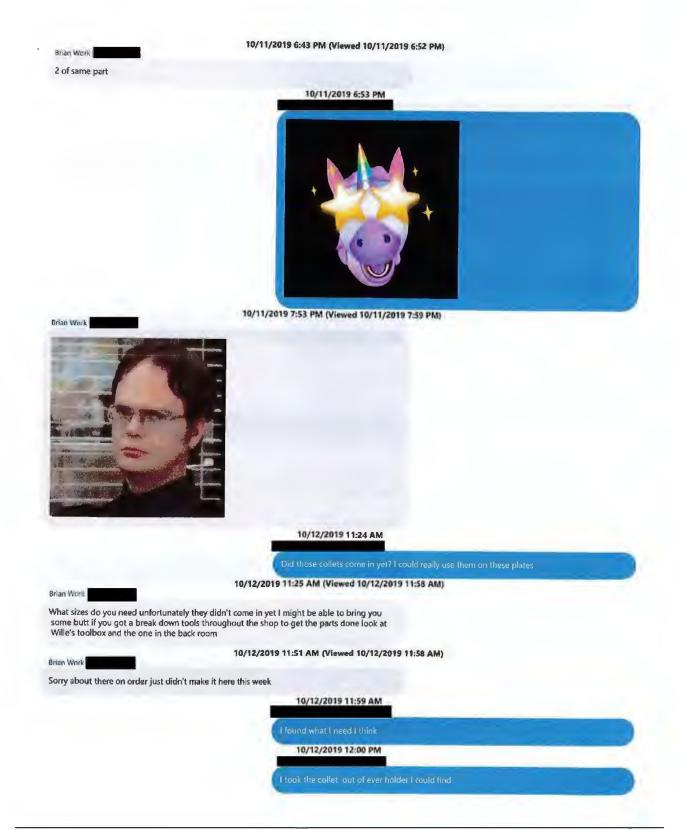




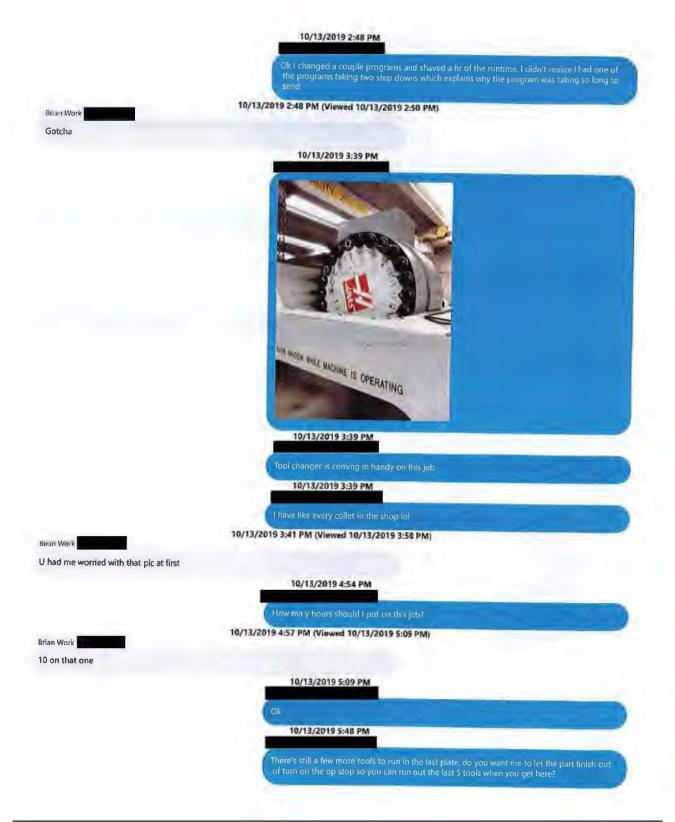




	10/11/2019 9:03 AM (Viewed 10/11/2019 9:20 AM)
Brian Work	the 2 link and to be give if the marking chan prochings
are used we charge it out. For all I d	cket? Just need to be sure if the machine shop machines care I can charge it to instructional time but if u have to hould bill it and count it towards it weekly hoursbenefits
	10/11/2019 9:03 AM (Viewed 10/11/2019 9:20 AM)
rian Work	
J it I	10/11/2010 0:23 AM
	10/11/2019 9:22 AM
	I have a ticket in my queue called laser stand that I've put all the hours on I opened it this summer and never closed it
Brian Work	10/11/2019 9:49 AM (Viewed 10/11/2019 9:53 AM)
Sotcha	
	10/11/2019 9:49 AM (Viewed 10/11/2019 9:53 AM)
Brian Work	
Put plate job in ur queue btw	
	10/11/2019 10:11 AM
	Maybe I should close it I figured they added up the hours every month and charged it accordingly
0.00	10/11/2019 10:34 AM (Viewed 10/11/2019 11:04 AM)
rian Work	
to it's fine just covering my bases	A THE STATE OF THE
Brian Work	10/11/2019 3:46 PM (Viewed 10/11/2019 4:21 PM)
Material for those places in the office	te in the boxes
	10/11/2019 3:47 PM (Viewed 10/11/2019 4:21 PM)
Irian Work Please run it on the VF to charge a t can finish up the laser stand part yo you can charge sub shop time to de	total hours to that project hopefully along with that you bu were working on in charge some hours do that after that esigning fixture etc.
	10/11/2019 4:22 PM
	Country and
	Sounds good 10/11/2019 4:23 PM (Viewed 10/11/2019 5:24 PM)
rian Work	10/11/2019 4:25 PM (Viewed 10/11/2019 5:24 PM)
lopefully some run time for studyin tho	ng. Plates do need finished for anodizing Monday morning
	10/11/2019 5:24 PM (Delivered 18/11/2019 5:25 PM)
	Hooked at them a little the other day and they seem pretty simple.
des Glast	10/11/2019 5:25 PM (Viewed 10/11/2019 5:27 PM)
rian Work	
ioping i u say tilat	10/11/2019 5:28 PM
	Was there 1 or 2 to do? I can't remember what you said yesterday



	10/12/2019 12:02 PM (Viewed 10/12/2019 12:07 PM)
f so please put back when do	one. Everything else nbd
	1D/12/2019 12:03 PM (Viewed 10/12/2019 12:07 PM)
ordered 2 more full sets and the. Ex	tra 1/8,3/16 and 1/4s
	10/12/2019 12:07 PM
	I didn't see any holders that had collets on
Bran Work	10/12/2019 12:13 PM (Viewed 10/12/2019 1:01 PM)
Ok &	
	10/12/2019 4:06 PM (Viewed 10/12/2019 4:14 PM)
Fran Work	is done cutting all the way through that part can you take
the part that was cut off and then cu	t off and 8 5/8 chunk please
	10/12/2019 4:15 PM
	I'm leaving now and it's maybe a 1/4 of the way through the block
Brian Work	10/12/2019 4:16 PM
	ou just cut off turn the block and cut it for me please
	10/12/2019 4:16 PM
	That works
	10/12/2019 4:16 PM (Viewed 10/12/2019 4:41 PM)
rian Work	The state of the second st
f I have time I may stop and just do i	it but it's not looking that way right now 10/12/2019 10:34 PM (Viewed 10/12/2019 10:48 PM)
trian Work	TO TELES TO THE VIEWER TO THE TOTAL TOTAL
Do you see any problem with those p	parts being ready to annodize Monday morning
	10/12/2019 10:49 PM
	They should be done, the first side is done on both and there all programmed
Brian Work	10/12/2019 11:45 PM (Viewed 10/13/2019 5:47 AM)
Sweet	
	10/13/2019 2:31 PM
	So I just noticed there's a few holes that have a tolerance of .11801176 can they be reamed after ionizing
Irian Work	10/13/2019 2:45 PM (Viewed 10/13/2019 2:46 PM)



Copy of Purchase Order Number J0019434

University of Iowa - Protostudios

Coralville, IA 52241 US



# INVOICE

BILL TO
Brian Busch
D3signTech LLC

INVOICE # 1252 DATE 11/08/2019 IDUE DATE 12/08/2019 TERMS Net 30

ACTIVITY	QTY	RATE	AMOUNT
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	1	936.00	936.00
Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	0.15	936.00	140.40
Product [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19		780.00	780.00
Frotostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19	0.15	780.00	117.00
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1809 - ProtoStudios ball parts - 10/27/19	1	936.00	936.00
Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1809 - ProtoStudios ball parts - 10/27/19	0.15	936.00	140.40
	PAYMENT BALANCE DUE		3,049.80 <b>\$0.00</b>

#### Warranty/Indemnification

All product and services delivered are delivered to Client at Client's sole risk and are "as is" without warranties of any kind, either express or implied, including all implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, and any warranties arising from a course of dealing, usage or trade practice.

Copy of Purchase Order Number J001A88B

#### FURCHASE ORDER



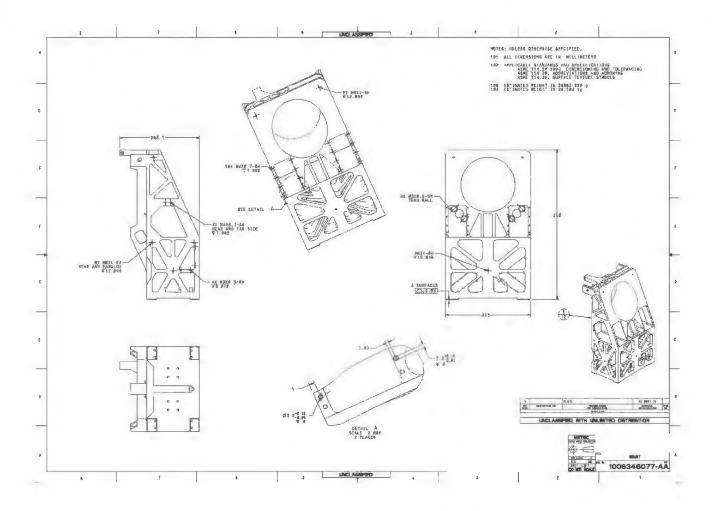
SUBTOTAL \$12,500.00

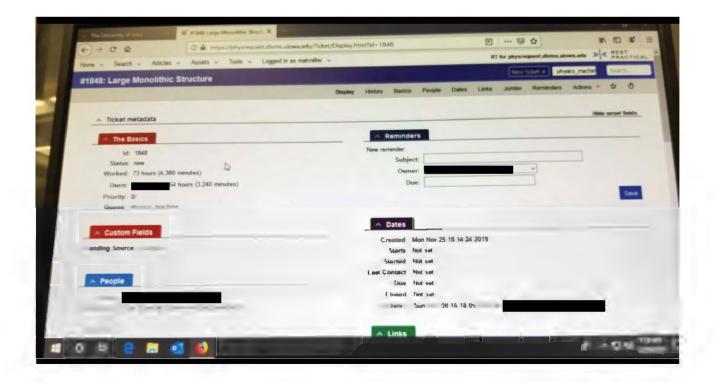
\* Ship Date recens to the date on which Xometry expects you're ship the parts. All shipments must receive an origin scan [e.g. they cannot be deposited in a drop box.]

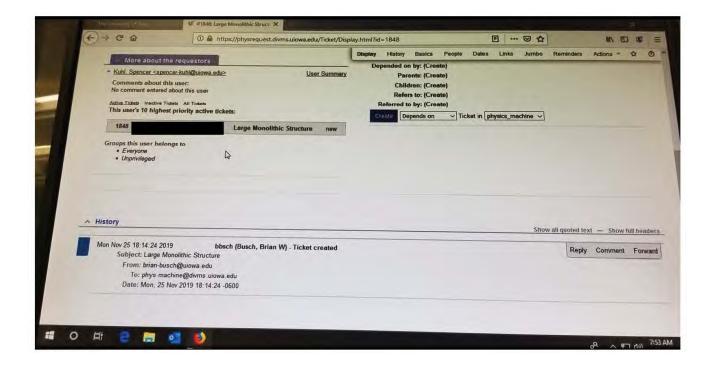
\*\*The Xometry provided part ID and revision are equivalent to the past number and revision in the OVD or PDF file. Unless

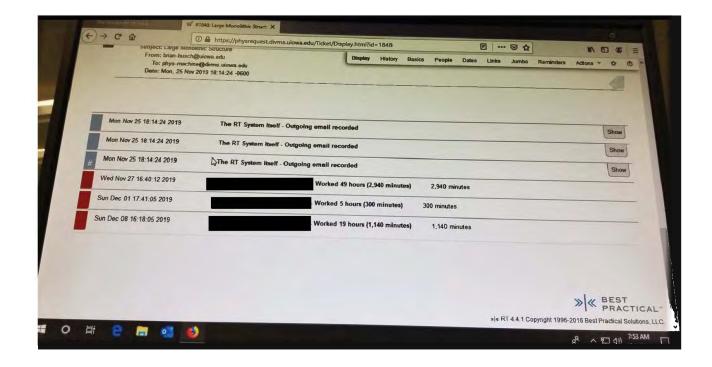
Histor Fleese submit all invites to paranei maioss@comery.com. For terms and conditions, please see the Harrison Manufersuring Services Agreement: https://www.spinets.com/vendorsems-of-service/

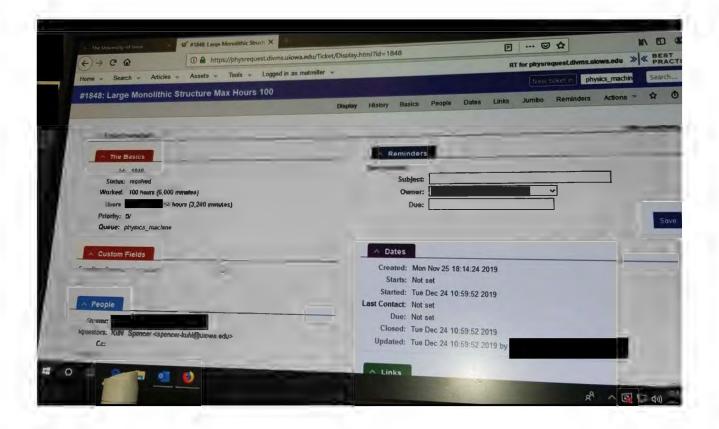
Approved By:	<b>Date:</b> 11/14/2019
	l l

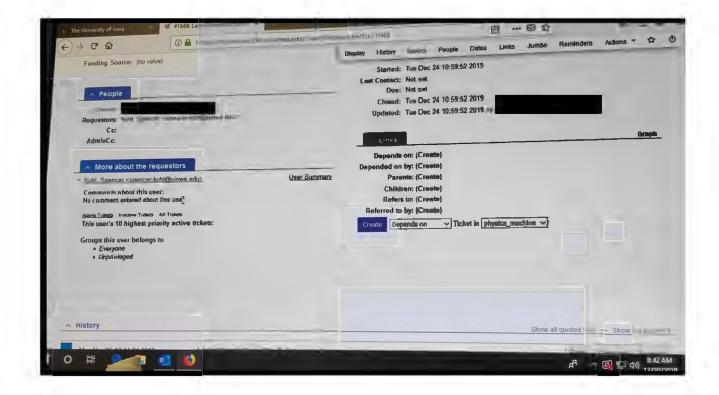


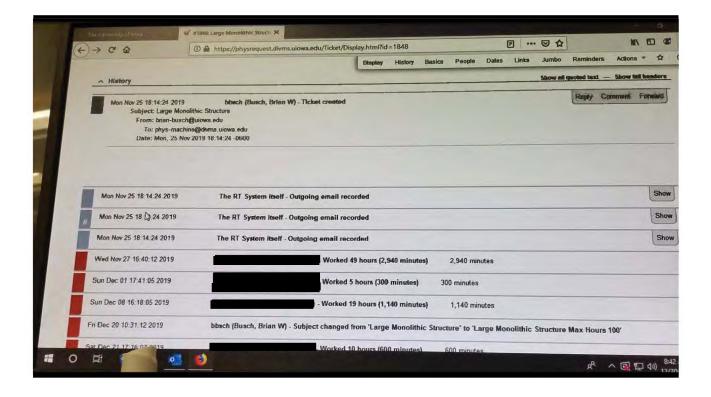


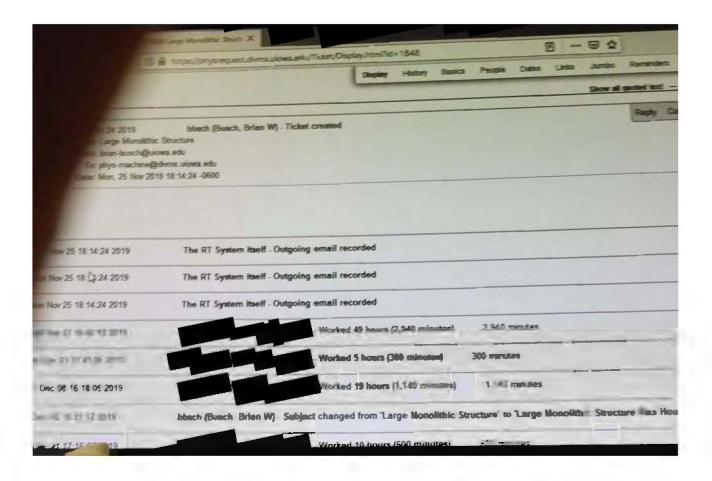


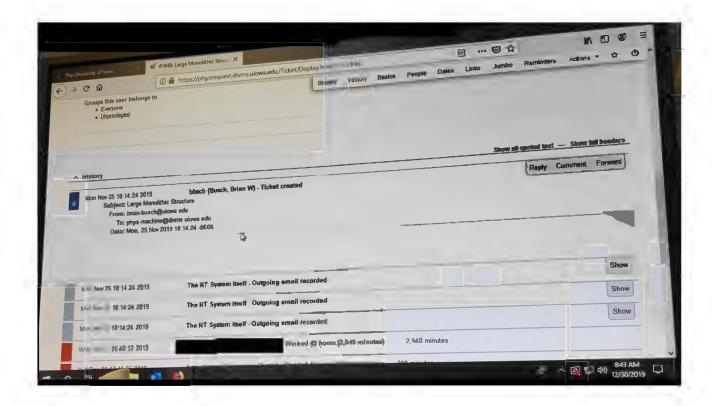


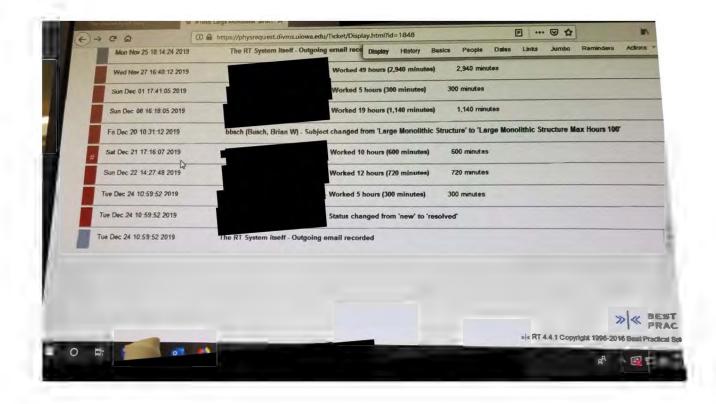


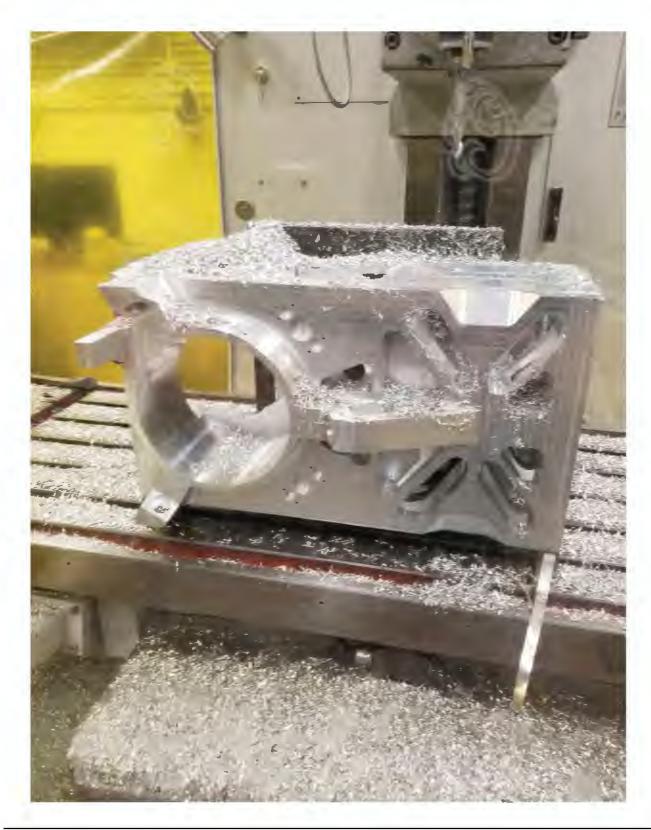




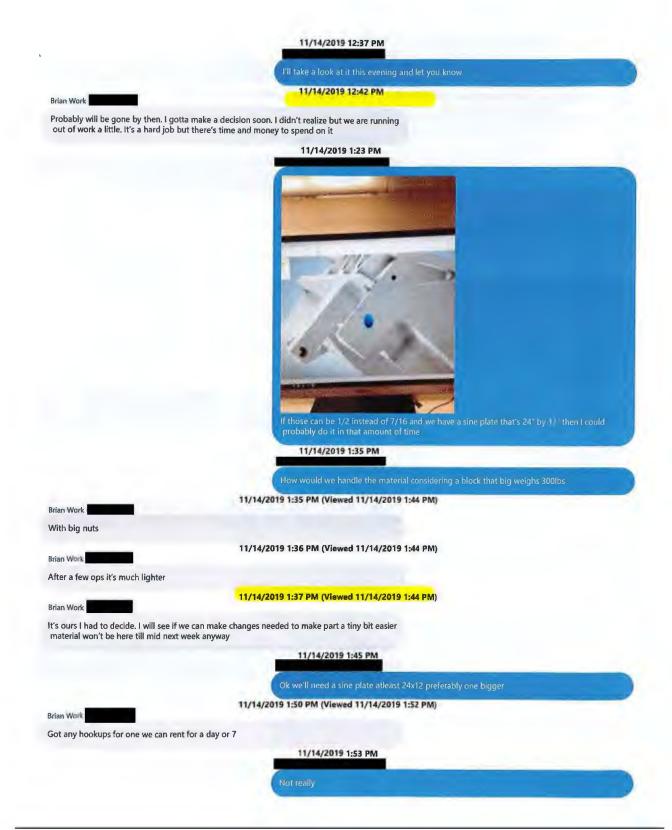




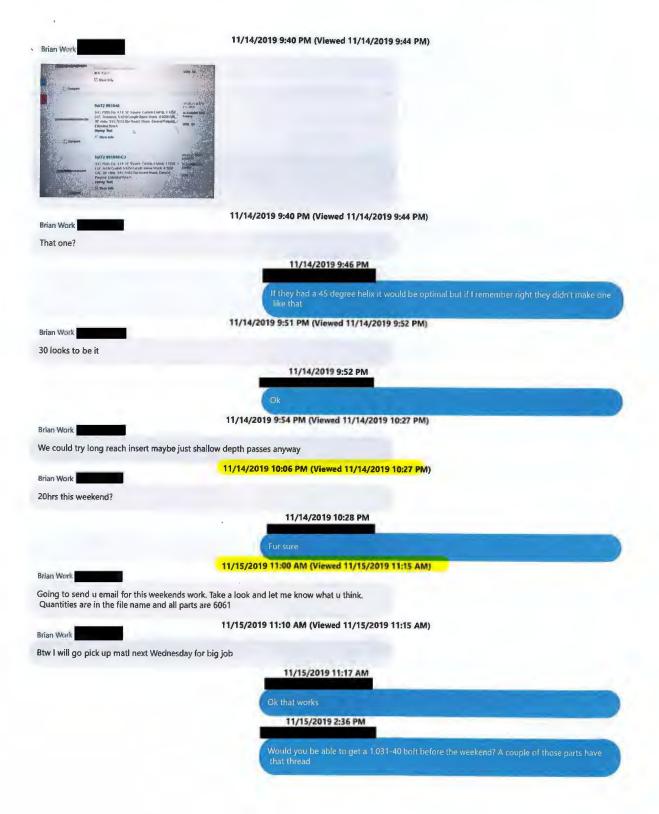






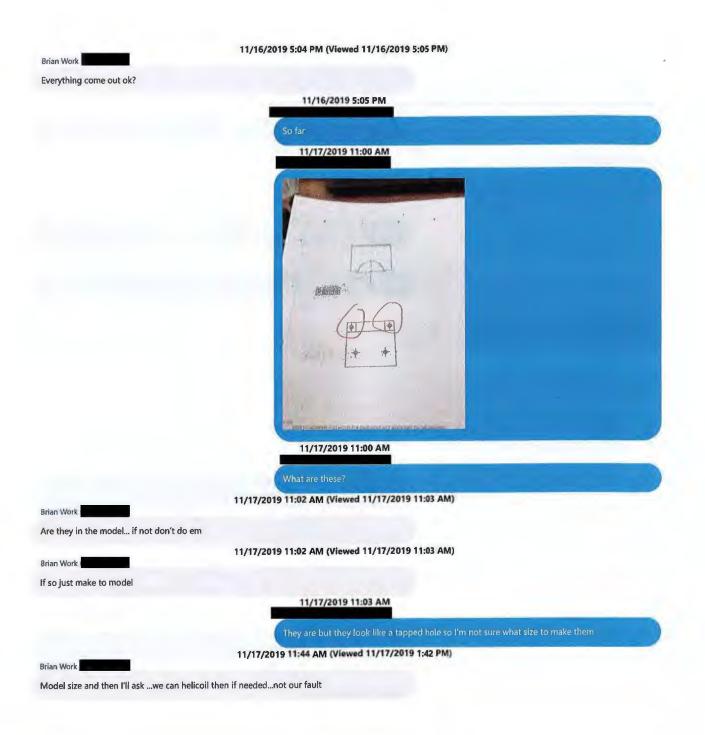


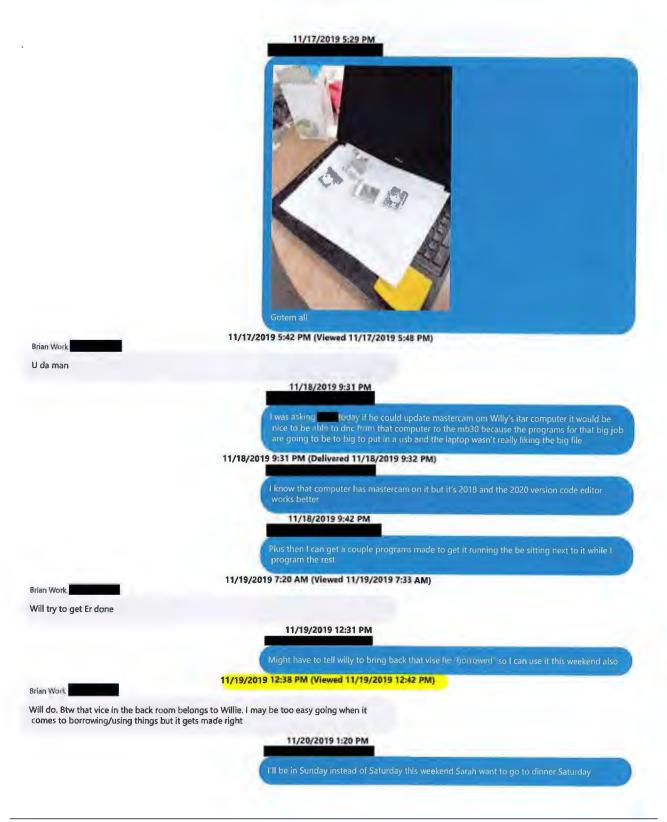
	11/14/2019 1:57 PM
	Djd you order material yet?
	11/14/2019 2:03 PM (Viewed 11/14/2019 2:05 PM)
nan Work	11/14/2013 2:03 FM (Viewed 11/14/2013 2:03 FM)
Vorking on itu got a source?	
	11/14/2019 2:06 PM
	No there might be a way to get around using a sine plate but the block we start with would have to be pretty big
irian Work	11/14/2019 2:08 PM (Viewed 11/14/2019 2:09 PM)
	e angle plate along with brackets and use holes in part
irian Work	11/14/2019 2:12 PM (Viewed 11/14/2019 3:27 PM)
	e around If it's at correct anglethe we could doing s angles
rian Work	11/14/2019 2:22 PM (Viewed 11/14/2019 3:27 PM)
donestly we could just make a jig to gu bore and indexes off of the earsmayb	ide a tool to make the hole and cb that spins in the e simplest easiest
	11/14/2019 4:54 PM
	If the holes can be drilled then we won't need a sine plate I'll just adjust the head to the right angle on the mb30 and use the quil
rian Work	11/14/2019 4:56 PM (Viewed 11/14/2019 5:00 PM)
hat's probably the easiest	
	11/14/2019 6:04 PM
	Gonna need that .75x8 Harvey em also
	11/14/2019 7:56 PM (Viewed 11/14/2019 8:03 PM)
rian Work	
s here	44/4 4/2010 7.FC PM 08:000-1 11/44/2010 9:02 PM)
ian Work	11/14/2019 7:56 PM (Viewed 11/14/2019 8:03 PM)
r u need something else	
	11/14/2019 8:05 PM
	Are you thinking about the Fullerton? I didn't think we ordered the Harvey em, gonna need to have 7in of cutter hanging out
rian Work	11/14/2019 8:18 PM (Viewed 11/14/2019 8:25 PM)
	start next week. Good timing though if U want a lil extra
over thanks giving	the room occur arring disagn to have a manual

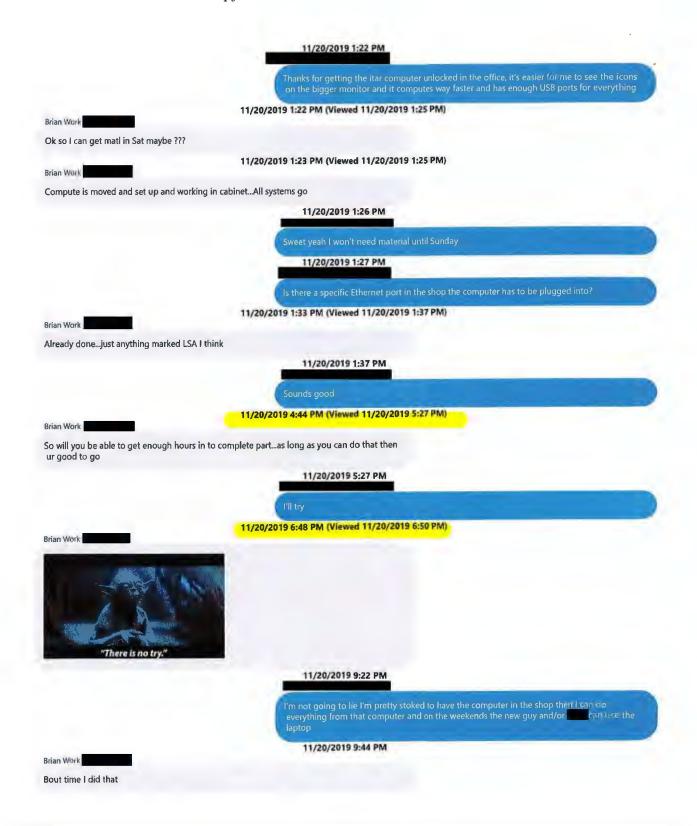


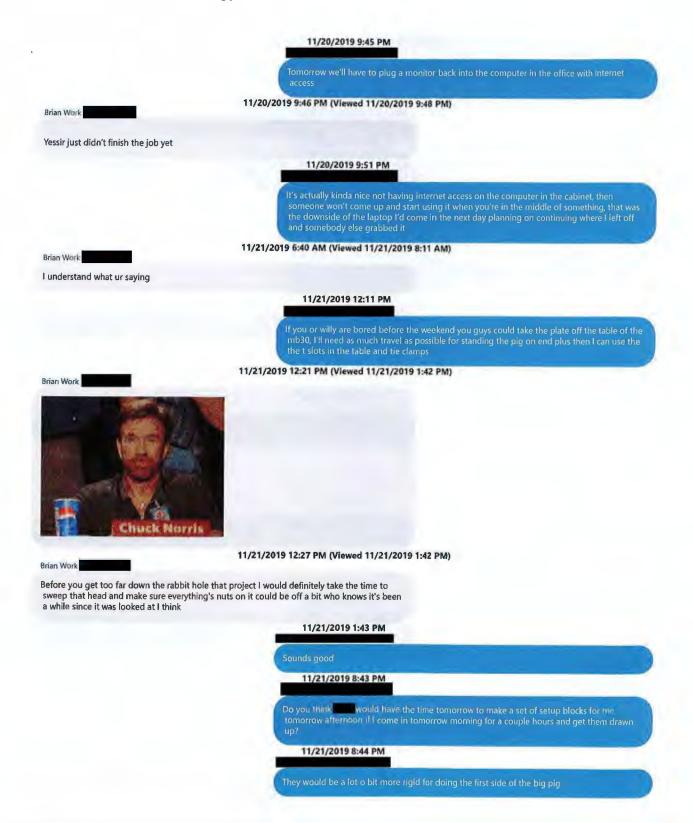
	11/15/2019 3:27 PM (Viewed 11/15/2019 3:34 PM)
Brian Work	
Thread mill	14.44C/2040 3-24 DM
Brian Work	11/15/2019 3:34 PM
Gonna have to make a thread gage or	n lathe to check them I did buy some thread wires tho
	11/15/2019 3:35 PM
	Ok was there specific stock to use for the flat plates? I was going to put the pit bulls in the
	fixture plate tonight and use that
Brian Work	11/15/2019 3:37 PM (Viewed 11/15/2019 3:39 PM)
	e will know where it's at. I also have 3 more 5/8 x18x18
	11/15/2019 3:50 PM
	Is there a laminator we can use? I was thinking we could laminate a tool list and the tools that don't get changed we could have printed off then the tools that change with every job write on the list with a dry erase marker
Brian Work	11/15/2019 3:51 PM (Viewed 11/15/2019 5:25 PM)
Maybe can check into it Monday perh	ans office needs can help me
maybe can check into it monday penn	11/15/2019 4:51 PM (Viewed 11/15/2019 5:25 PM)
Brian Work	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Did you have a chance to look for mat	terial there
	11/15/2019 5:26 PM
	I'm just walking out of class now I'll be there in 5
	11/15/2019 5:45 PM (Viewed 11/15/2019 5:47 PM)
Brian Werk	
Gotcha lmk if u need something	44.445.0040.5-45.704
	11/15/2019 5:47 PM
n : (171)	11/15/2019 5:48 PM
Brian Work  Does that mean somethingI'm old	
Does that mean something in ord	11/15/2019 5:48 PM
	11/15/2013 3/40 / 11/1
Brian Work	11/15/2019 5:49 PM
	11/15/2019 5:49 PM
	11/15/2019 5:49 PM
Brian Work  Brian Work	

Brian Work	11/15/2019 6:35 PM (Viewed 11/15/2019 6:36 PM)	
did some of those parts do U l	k ow which ones are left?	
	11/15/2019 6:36 PM	
	Yeah	
	11/15/2019 6:36 PM (Viewed 11/15/2019 6:38 PM)	
Brian Work		
Good deal this might just work out		
	11/16/2019 9:27 AM	
	So where is the laptop?	
	11/16/2019 9:39 AM	
	Also what was the name of the website with the threading stuff?	
Brian Work (3102355772)	11/16/2019 9:41 AM	
Brian Work (3193256772) In the office? Or back room	ay have been using it	
	11/16/2019 9:41 AM	
Brian Work		
Theoretical machinist		
Brian Work	11/16/2019 9:41 AM	
On my way in		
	11/16/2019 9:41 AM	
	Cok	
	11/16/2019 9:47 AM	
Brian Work  Did I find it?		
old Fillight;	11/16/2019 9:47 AM	
Brian Work	11/10/2013 3.7/ Ald	
U		
	11/16/2019 9:48 AM	
	l∳using it	
Brian Work	11/16/2019 9:49 AM (Viewed 11/16/2019 9:51 AM)	
	the one in the office and one of you has to use the	
Brian Work	11/16/2019 9:54 AM (Viewed 11/16/2019 9:55 AM)	
U can use that usb thing to transfer file	rs ·	
Brian Work	11/16/2019 9:55 AM	
But so could		



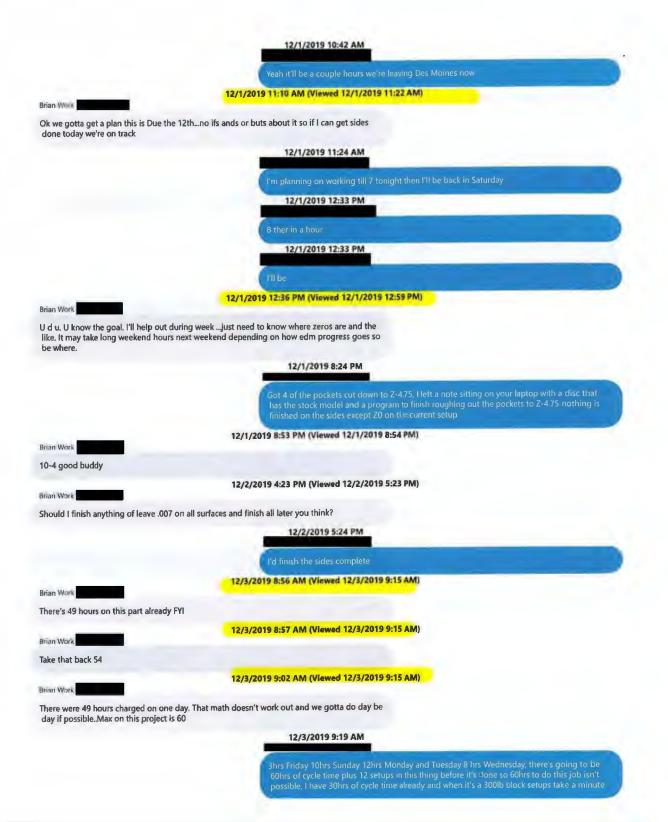




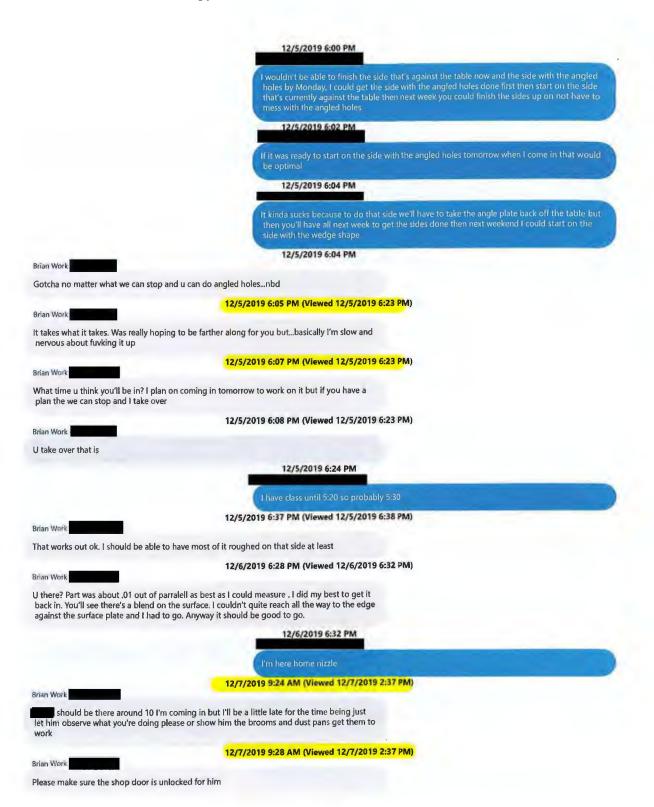


Brian Work	11/21/2019 8:49 PM (Viewed 11/21/2019 8:52 PM)	
Probably a big can do if we have material		
	11/21/2019 8:53 PM	
	Ok I have a used fixture he could probably saw up and make some out of	
	11/22/2019 10:22 AM	
	What size was that block again?	
Brian Work	11/22/2019 10:33 AM (Viewed 11/22/2019 10:46 AM)	
12 x 13 x 22		
	11/22/2019 12:08 PM (Viewed 11/22/2019 12:20 PM)	
Brian Work  Is the BF to still running and the bit still intact		
is the or to sun running and the bit sun intact	11/22/2019 12:20 PM	
	Yes	· v
Brian Work	11/22/2019 12:30 PM (Viewed 11/22/2019 12:33 PM)	
Thank u		
	11/22/2019 1:49 PM	
	I you likes for the blocks today so I can going on the pig Sunday	
Brian Work	11/22/2019 1:50 PM (Viewed 11/22/2019 2:09 PM)	
впал ууогк Sounds like a plan enjoy your day off you des	erve it	
	11/23/2019 11:24 AM	
	So who's this work study you hired?	
	11/23/2019 12:31 PM	
Brian Work		
Jo Momma	- ALICEN 65-01	
	11/23/2019 12:31 PM	
	Mexican?	
Brian Work (3193256772)	11/23/2019 12:31 PM (Viewed 11/23/2019 12:32 PM)	
The Contract of the Contract o		
Nine What	11/23/2019 12:32 PM	
Brian Work  If he were Mexican he'd be Jorge Momma		
a be roige morning	11/23/2019 12:32 PM	
	Is he a engineering student?	

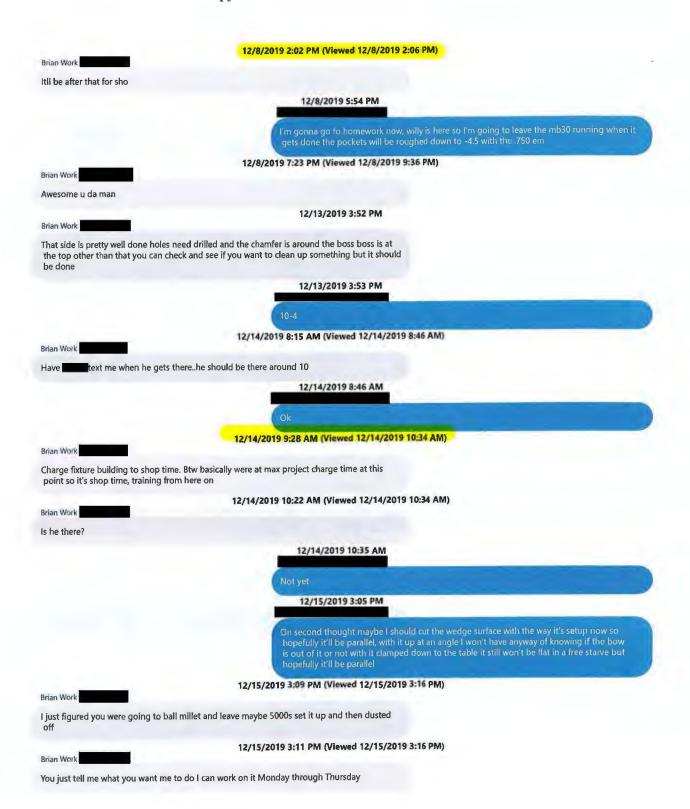
Brian Work	11/23/2019 12:33 PM (Viewed 11/23/2019 12:34 PM)
He is a biomed engineer in student be was very clear about what the expect deaning and organizing	out not anything like the last one he understands and I tations are hand at least 30% of his time will be spent
Brian Work	11/23/2019 12:36 PM (Viewed 11/23/2019 12:37 PM)
The state of the s	which tells me one of two things he's not a rich kid or he's good things
	11/23/2019 12:44 PM
	said he got those blocks done, is the aluminum plate still on the mb30?
	11/23/2019 12:45 PM
Brian Work	
Aluminum play is still on the MB 30 a material so by the time you get in yo	is of now but I'll go in early take it off has a box of bushould be able to start your thing
	11/23/2019 12:46 PM
	That works, I got enough programming done yesterday I can get it running then get a couple tools around and continue programming
	11/23/2019 1:03 PM (Viewed 11/23/2019 1:20 PM)
rian Work ust don't hurry be deliberate and fo	abo about sorb arm
ust don't hurry be deliberate and to	
Brian Work	11/24/2019 2:31 PM (Viewed 11/24/2019 5:12 PM)
mk if The Vf2 stops please.	
	11/24/2019 5:12 PM
	Can do
100	11/24/2019 5:12 PM (Viewed 11/24/2019 5:29 PM)
rian Work	172-72-513 3.12 7.18 (Vielled 11/2-4/2-613 3.23 PM)
hould be done	
	11/24/2019 5:30 PM
	It's still running
	11/26/2019 9:43 PM (Viewed 11/27/2019 3:31 AM)
rian Work	
ll good? Ima get some breakfast pizz	ta in Morning u a sausage or bacon guy?
	11/27/2019 3:32 AM
	No problems so far, I like them both the same
	11/28/2019 1:54 PM (Viewed 11/28/2019 3:41 PM)
ian Work	we like wet a war to a last
st approved ur hourshoping it in tir	
rian Work	12/1/2019 10:13 AM (Viewed 12/1/2019 10:37 AM)
coming in?	



Brian Work	12/3/2019 9:23 AM (Viewed 12/3/2019 9:26 AM)
I get ya we can just talk and figure it o to figure it out	ut later. Was just surprised at 55 hours already and have
	12/3/2019 9:28 AM
	If you get the sides done this week then Saturday and Sunday I could probably have it ready for or on the last setup by Monday
Brian Work	12/3/2019 9:37 AM (Viewed 12/3/2019 9:49 AM)
By my Math though that's 33 hours plu	s 5 on Sunday and that 38 what on the ticket is
Brian Work	12/3/2019 9:37 AM (Viewed 12/3/2019 9:49 AM)
19	
Brian Work	12/3/2019 9:38 AM (Viewed 12/3/2019 9:49 AM)
4 total now	
rian Work	12/3/2019 9:41 AM (Viewed 12/3/2019 9:49 AM)
Nevermind 12 min and Tuesday	
rian Work	12/3/2019 9:53 AM
t's all good you're doing fine my apolo in reality it's what it took	gies just stressful and was surprised at the 49 hours but
	12/3/2019 9:57 AM
	I think I added 2hrs to much on the ticket now that I look again I could put a couple hours on shop time this weekend to balance it out
rian Work	12/3/2019 10:37 AM (Viewed 12/3/2019 12:24 PM)
punds good	
	12/4/2019 5:26 PM (Viewed 12/4/2019 5:27 PM)
ian Work  ny chance of Friday night or day hours	rings up and unadition in Inh.?
ny chance of Friday flight of day flours	12/4/2019 5:26 PM (Viewed 12/4/2019 5:27 PM)
ian Work	in the state of the Colonia state of the sta
nis is slooooooow going.	
	12/4/2019 5:27 PM (Delivered 12/4/2019 5:28 PM)
	Yeah I was thinking coming in for a few hours
	12/5/2019 5:51 PM
	It might be best to not go onto the other side tomorrow, you could finish up the current side
	then this weekend I could probably get the side with the angled holes done then start on the side that's currently against the table
ian Work	then this weekend I could probably get the side with the angled holes done then start on the



All good?	
	12/7/2019 5:01 PM
	Yep, it should be running the side you got stared on Friday when you come in Monday morning
Brian Work	12/7/2019 5:01 PM (Viewed 12/7/2019 5:08 PM)
weet	
	12/8/2019 10:51 AM
	Was the edm pockets going to be wired out or done in the sinker in the back of the shop? If
	it's not going to be wired out I'll rough out the pack of the sincer in the back of the shop? If it's not going to be wired out I'll rough out the pack of the pockets so it's easier to burn but I it is going to be wired out I'll leave the material in there
rian Work	12/8/2019 12:45 PM (Viewed 12/8/2019 12:47 PM)
m a come in tonight if that's side is ready to run	
Tollie in tollight if the tollight to full	12/8/2019 12:47 PM
	( Ok
in Work	12/8/2019 1:11 PM (Viewed 12/8/2019 1:13 PM)
an is to sinker so roughing it out is preferred	
rian Work	12/8/2019 1:12 PM (Viewed 12/8/2019 1:13 PM)
ither way it can be wired if sinker doesn't work	
	12/8/2019 1:14 PM
	Sounds good
	12/8/2019 1:40 PM
inn Work  g hole? When's that happen you think?	
g note: when a trachappen you tritik:	12/8/2019 1:40 PM
	It's pretty much done
nan Work	12/8/2019 1:41 PM
da manSanta's gonna be good to you this yea	r
	12/8/2019 1:42 PM
	When do you plan on coming in tonight?
ian Work	12/8/2019 1:45 PM
me you leaving?	
,	12/8/2019 1:45 PM



Brian Work	12/15/2019 3:12 PM (Viewed 12/15/2019 3:16 PM)
I will finish all the pockets on that side that you can indicate it in and then fini	and then ball mill that angle into different directions so sh it
	12/15/2019 3:18 PM (Delivered 12/15/2019 3:19 PM)
	The same to the sa
	That works, just be sure and finish the whole surface to dimension
Brian Work	12/15/2019 3:23 PM (Viewed 12/15/2019 3:27 PM)
To be clear than you don't want me to I	eave any material on the surface to finish
Brian Work	12/15/2019 3:27 PM
Or do you want me to send my finished	and leave like 7000's
	12/15/2019 3:27 PM
Brian Work	
Semi finish that is	
	12/15/2019 3:27 PM
	To the number home nizzle no material left
	12/15/2019 3:28 PM (Viewed 12/15/2019 3:51 PM)
Brian Work  Can do	
Call do	
Brian Work	12/18/2019 3:33 PM (Viewed 12/18/2019 5:02 PM)
Are u around today?	
Brian Work	12/18/2019 3:53 PM (Viewed 12/18/2019 5:02 PM)
	can be charged to project. Ur time for last weekend already over 100
Brian Work	12/20/2019 6:28 PM (Viewed 12/20/2019 6:31 PM)
Part HAS to ship Tuesday morning at late	est Monday night more better
	12/30/2019 6:24 PM
	Don't forget to submit my hrs, also I should be done with those tubes Friday morning is there
	anything ready for with the rolling mill?  12/30/2019 6:28 PM (Viewed 12/30/2019 7:33 PM)
Brian Work	
Waiting on facilities for rolling mill info	
	12/30/2019 7:33 PM
	12/31/2019 5:41 PM (Delivered 12/31/2019 5:45 PM)
	I might have a couple days worth of work for skiff, I might be able to meet with home Thursday or Friday to get the info

Copy of Purchase Order Number J001A88B

University of Iowa - Protostudios

Coralville, IA 52241 US



# INVOICE

BILL TO Brian Busch D3signTech LLC 

ACTIVITY	QTY	RATE	AMOUNT
Product [ExGen] Machining Services - 02/04/2020 - Protostudios Membership / Spencer Kuhl: Protostudios Membership – Protostudios membership from 12/13/19 - 3/13/19	3	75.00	225.00
Product [ExGen] Machining Services - 02/28/2020 - Machining Services / Spencer Kuhl: 1848 - Large Monolithic Structure		3,978.00	3,978.00
Protostudios Service Fee (15%) 15 % Protostudios Service Fee	0.15	3,978.00	596.70
	PAYMENT BALANCE DUE		4,799.70 <b>\$0.00</b>

#### Warranty/Indemnification

All product and services delivered are delivered to Client at Client's sole risk and are "as is" without warranties of any kind, either express or implied, including all implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, and any warranties arising from a course of dealing, usage or trade practice.

Copy of Purchase Order Number J001699C

# PURCHASE ORDER

		-	me	try	(3)	P.O. No jood 699 Date: 07/28/20	90
fo: D'Asioni William United	sburg, IA 5	2861	Ship To Samere United	ille, MA DZI4S	al cu	I number should a I packages and grespondence ease submit all ins amberinvoices@xor	orces to
Partne WA	r Aunte IC	Þ	Ship Dat 08/01/201		Shippin FedE: 21	g M≥thod: Day	
	ements d inspectio	in					
Notes NA							
Vi=m	Gride	Part ID**	Order (D	Description		î	Oly
4	THUS	ου φυλασ	0R906/15093	na_503_01_SingleB Maleriali Albenhum 6061 Finishi Standard Inspectival Requi Standard Inspec National	пe	k,STEP	10
-	L.		l.			SLETUTAL	\$3,975.00

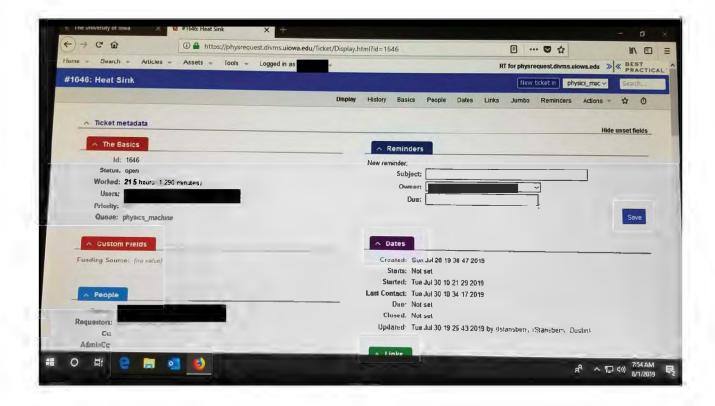
TOTAL \$2,675,00

Mater Flease submit all invoices to partner incoices@comer@com | For terms and conditions, please see the Fartner Menufacturing Services Adresment https://www.sermetcs.com/sendoeterms-of-service/-

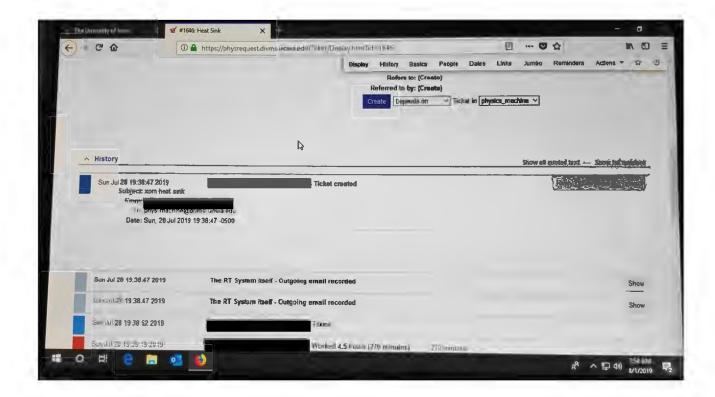
Aggreed By	Date
Abrassada	0.4/5.8/5.003

<sup>\*</sup> Ship Date refers to the date on which Kometry expects you to thin the parts: All shipments must receive an origin scan Leg. they remove he deposited in a chop bot I \*\*The Xometry provided part ID and revision are equirulent to the part number endirevision in the CND or FDP file; unless stated otherwise.

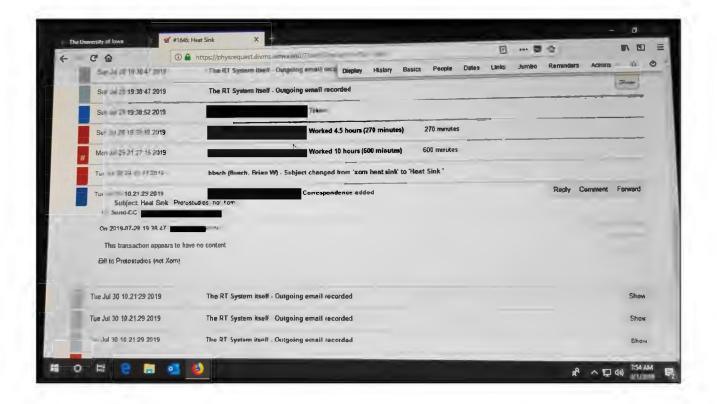
Copy of Purchase Order Number J001699C

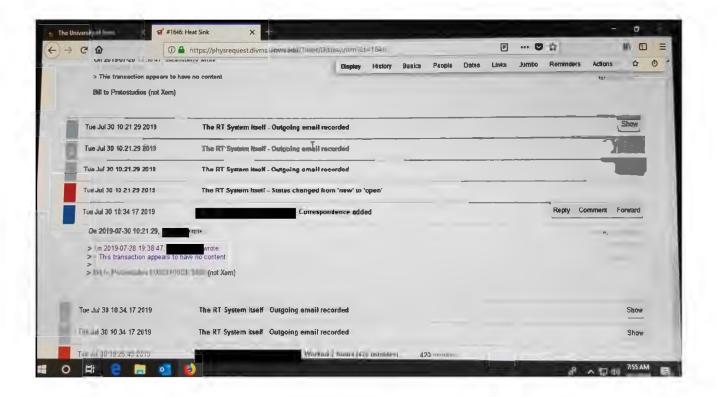


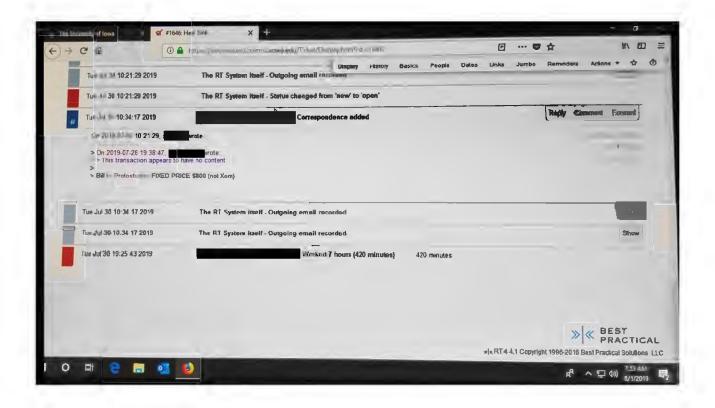
Copy of Purchase Order Number J001699C



Copy of Purchase Order Number J001699C







Brian Work	7/26/2019 2:21 PM (Viewed 7/26/2019 2:25 PM)
That makes sense to mewe can s	lug or order round stock large enough if needed as well.
	7/26/2019 2:25 PM (Delivered 7/26/2019 2:26 PM)
	There's more of chunks like the one I grabbed the other day in the back room that'll work fine
	7/26/2019 2:26 PM
	They look like there we wired out of something
	7/26/2019 2:27 PM (Viewed 7/26/2019 2:35 PM)
Brian Work	
Ok yeah use them up	7/27/2019 12:03 PM
Brian Work	TETEUIS TENS FIN
don't think that you HMW part is know if it's worth remaking as lon	s all that bad will see if we can send it a little bit but I don't ng as we're within tolerance
Brian Work	7/27/2019 12:04 PM (Viewed 7/27/2019 12:06 PM)
have some other work we can ge	et up and going and I bought a spindle speed or for the shop
	7/28/2019 12:56 PM (Delivered 7/28/2019 1:55 PM)
	I have a couple liours left on this plastic part then what was the next job?
Brian Work	7/28/2019 2:00 PM (Viewed 7/28/2019 2:08 PM)
leat sinks Willie is going to wj	
Brian Work	7/28/2019 2:07 PM (Viewed 7/28/2019 2:08 PM)
	ou the DL on the heat sings hoping you can get them
anan Work	7/28/2019 5:17 PM (Viewed 7/28/2019 5:22 PM)
Sounds like wj is a no-gou got a	plan to mover forward without?
Irian Work	7/28/2019 5:19 PM (Viewed 7/28/2019 5:22 PM)
	mill can come off it was supposed to be lasered anyway
	7/28/2019 5:22 PM
	got bunches of hunches
	7/28/2019 5:27 PM
	I found some .04 cutters that should work
	7/28/2019 5:29 PM (Viewed 7/28/2019 6:32 PM)
rian Work	
weet bunches of hunches!!!	7/28/2019 6:17 PM (Viewed 7/28/2019 6:32 PM)
rian Work	Nententa out the fateres then man martial

Copy of Purchase Order Number J001699C

University of Iowa - Protostudios

Coralville, IA 52241 US

protostudios

INVOICE

BILL TO Brian Busch D3signTech LLC

ACTIVITY	QTY	RATE	AMOUNT
Outsource Machining services for Heat Sink	1	1,655.50	1,655.50
Protostudios Service Fee Protostudios Service Fee (15%)	0.15	1,655.50	248.33
	ENT		1,903.83
	ALANCE DUE		\$0.00

#### Warranty/Indemnification

All product and services delivered are delivered to Client at Client's sole risk and are "as is" without warranties of any kind, either express or implied, including all implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, and any warranties arising from a course of dealing, usage or trade practice.

Copy of Purchase Order Number J0018FD2

# PURCHASE ORDER

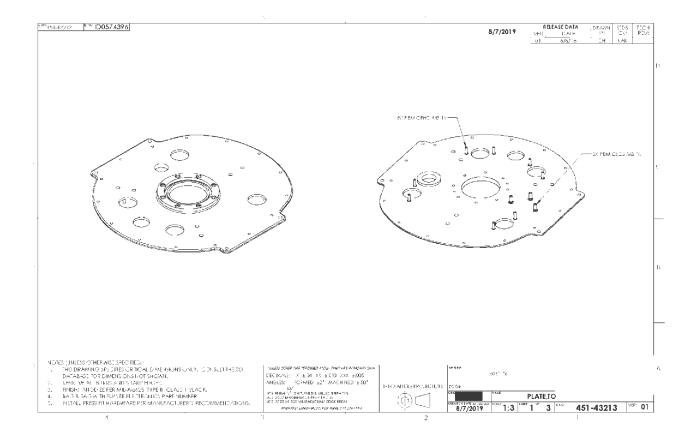
			me		5.0(18)	P.O. N JOOLES Date 10/02/2	D2 s
jo: Dəsigni William Unitedk	shurn, IA-50	7.961	Ship To Perty, C United	IK 73077	ell con Pie	number should ; packages and respondence ase submit all in the Invoices@xx	valees ea
Partne N/A	r Quete ID	i,	Ship Date! 10/16/2019		Shipping Ma PedEx3tanda	thod; rd 0 vernight	
Finishin	ements g Certificat	on Standard	Inspection				
Notes N/A							T
lt=m	Spac	Pert ID**	Order ID	Description			Oty
	CHUS	OI LESSE	T919E-15001	Feduresi Inserts 11 Threads/T Surface S specific are Tolerance Lucations Part Mark Certification Finistring C	GUST TE  Your 4 Hotize  I  Report Hotise 1  OUGHNESS Hillish S.  Re SI precision + CUUL  Ings: Bay and Tay,  SI  Estification  Guylrenenii	'L+/025mml <sub>i</sub> 7	(0*-
						SLETTOTAL	1 5,250.00
						TOTAL.	43 3507

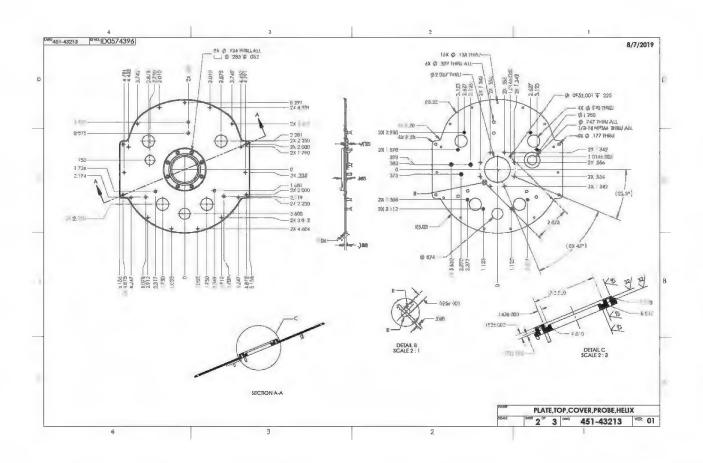
Note: Please submit all invoices to partner invoices (Fromes rycom). For terms and conditions, please see the Hartner Manufacturing Services Agreement https://www.sometry.com/vendosserms-of-sat/ice/

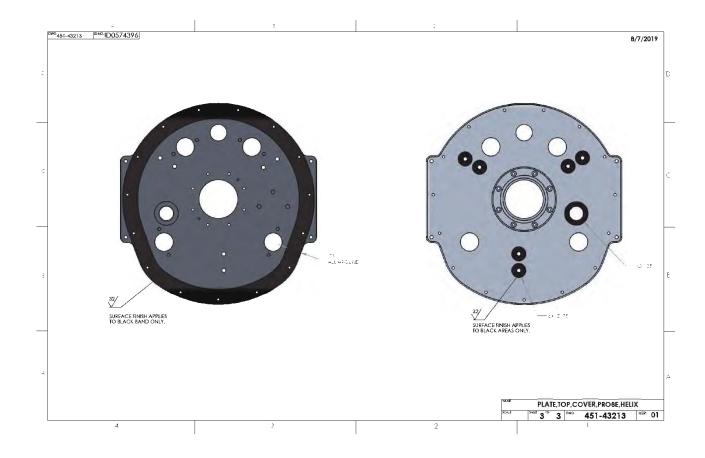
Approved By	Date
	219114221115

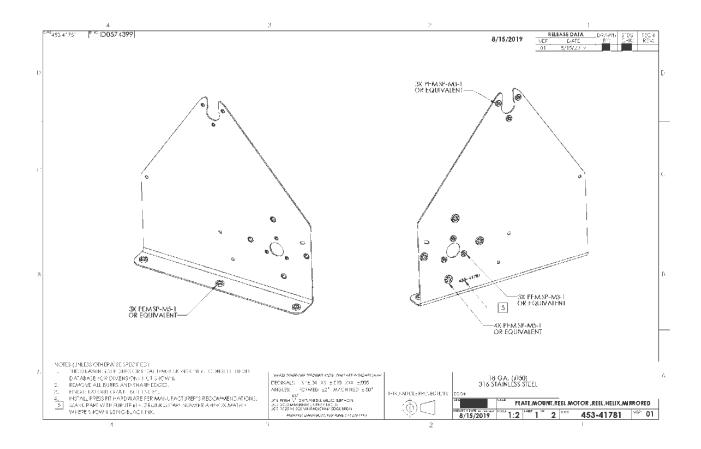
<sup>\*</sup> Ship Date refers to the date on which Cometry espects you re ship the parts. All shipments must receive an initial stain (e.g., they's arrive be deposited in a drup box.)

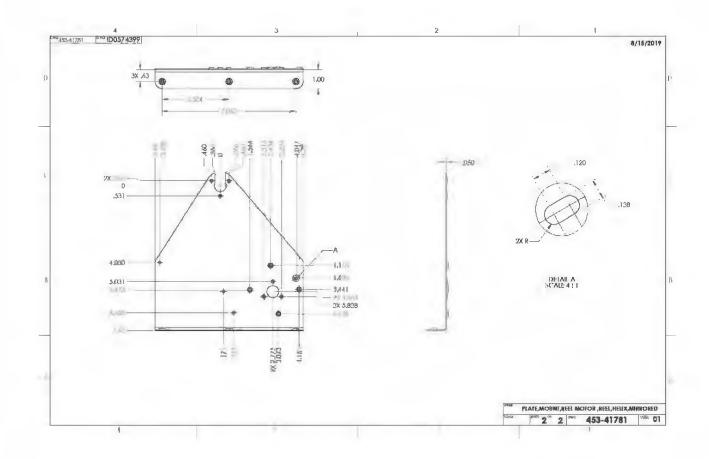
\*\*The Xametry provided part ID and revision are equivalent to the part number and revision in the CAD or PDF file, unless stated otherwise.

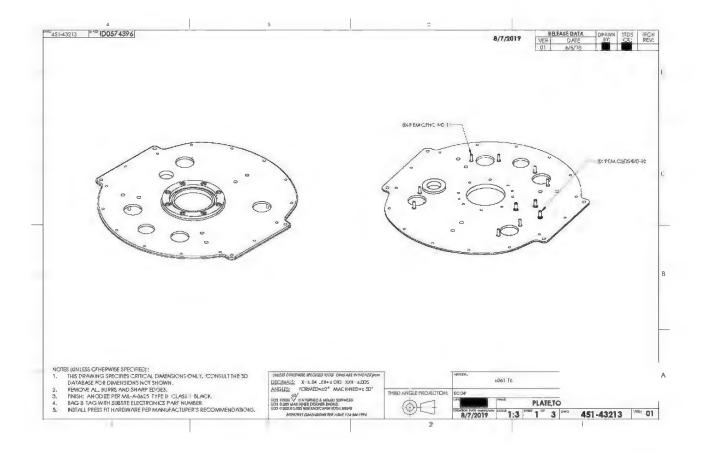


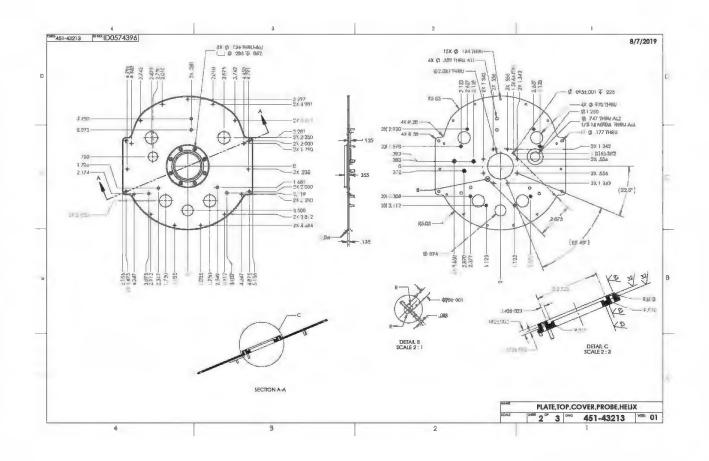


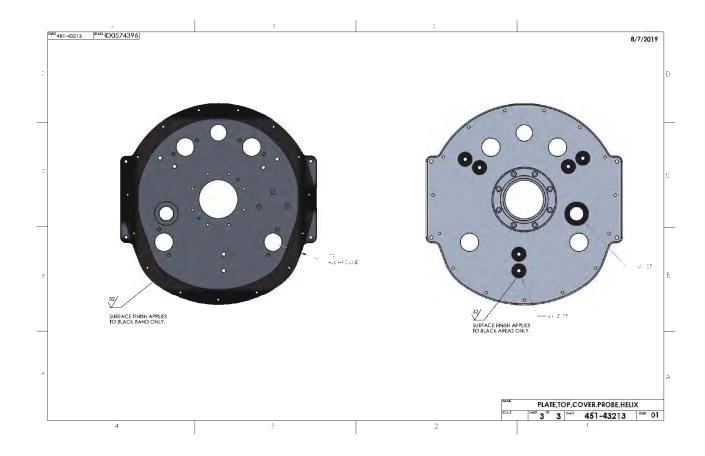






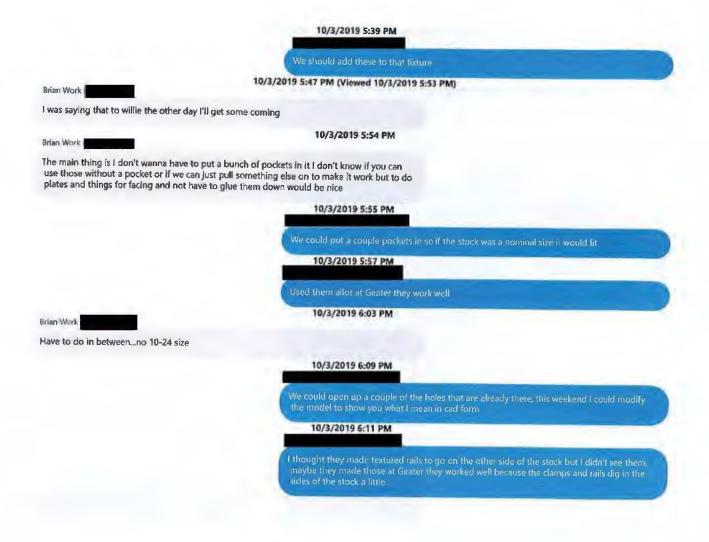






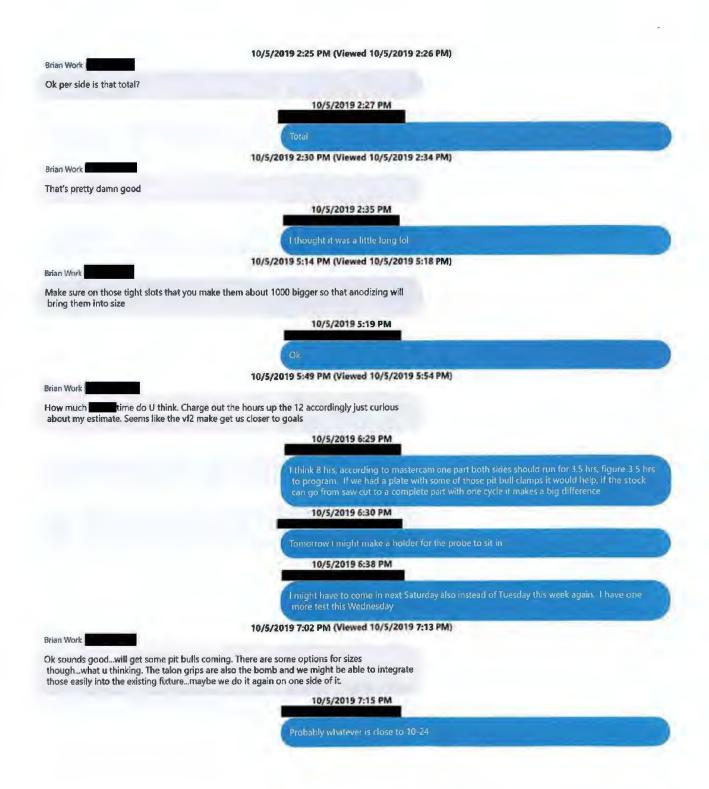
	9/29/2019 4:11 PM
	I put the fixture up on the granite plate and the long sides are parallel and the short sides ha about .005 of taper per side
Brian Work	9/29/2019 4:17 PM (Viewed 9/29/2019 4:22 PM)
Ok maybe square on mb-30	
	9/29/2019 6:17 PM
	I'm walking into tutoring, I got that fixture done it's sitting on the black granite plate on the
Principal Miller	9/29/2019 7:12 PM (Viewed 9/29/2019 7:34 PM)
Ok	
Brian Work	10/1/2019 8:14 PM
So ur working Sat and Sun total 16+hc	ours?
	10/1/2019 8:14 PM
	Yeah I was planning on 10 Saturday and 9 Sunday
Brian Work	10/1/2019 8:15 PM (Viewed 10/1/2019 8:17 PM)
Ok got a job for yas then	
	10/1/2019 8:17 PM
	Sounds super
Brian Work	10/1/2019 8:48 PM (Viewed 10/1/2019 8:49 PM)
Should be some long runtimes though	so u can study but u gotta get er done or mostly
anyway will send u pdf and model torr	10/1/2019 8:51 PM
	Ok maybe Friday after class I could come in then if there something I could leave run when I go home I'd have to option
Brian Work	10/2/2019 7:24 AM (Viewed 10/2/2019 7:59 AM)
That'll work	
	10/2/2019 10:50 AM
	I made a program for changing tools so it moves over the bucket it's in the control called tool change with bucket, I think it's the second program on the list
	10/2/2019 2:08 PM
	If you're ardening stuff you should get one of those usb hubs
žrian kilovi.	10/3/2019 3:02 PM
Brian Work	arged hours to 12. I can't imagine u would have more

10/3/2019 3:02 PM
Ok
10/3/2019 3:04 PM
rian White i u want to take laptop home to program u can. If we can make this work where u can plan on
ur time and schedule machine time it should be a good thing for u also
10/3/2019 3:06 PM
Yeah normally working Sunday and Tuesday works well, this week was kinda screwed because of tests
10/3/2019 3:12 PM
Normally I could do 10hrs on Sunday and 5 hours on Tuesday
10/3/2019 3:13 PM
If I were to work 18 hrs this weekend what should I put the other 6 towards?
10/3/2019 3:23 PM (Viewed 10/3/2019 3:24 PM)
nan Work
hop time just do some cleaning and organizing while things are running. Point I am trying to nake is I don't super care as long as things get done and we can charge 80 percent of ur time weekly
10/3/2019 3:25 PM
Ohlsee
10/3/2019 3:27 PM
nan Work
s u move along in school I wanna be flexible and allow u to still earn a living. We need to perfect the lights out stuff as much as we can anyway
10/3/2019 3:28 PM
We can try
10/3/2019 3:38 PM (Viewed 10/3/2019 4:15 PM)
and the land the state of the second file. The horse training along the state of the second file.
o thinking aloud here if u come get laptop and files. Take home tonightplan it out come in et up and run tomorrow lights out one side then ur halfway there
10/3/2019 4:19 PM
Tonight I have a test at 6:30 and homework after that, if we could figure out a set price for programming that might work. The catch is during the week I don't really have any free time aside from the time set aside for work on Tuesday
10/3/2019 4:23 PM (Viewed 10/3/2019 4:46 PM)
ian Work
Vhatever works just a suggestion. The parts get anodized so they need done Monday, It's nore the point of agreeing on projects and charging things out so they match up with it lours.
10/3/2019 5:39 PM
File attachment with MIME type: image/jpeg https://www.miteebite.com/products/pitbull-clamps/ (Sent with URL)





	10/5/2019 11:09 AM	
	Fur sure	
	10/5/2019 11:15 AM	
	Probably looking at 2.5hrs a piece for run time	
Br an Work	10/5/2019 11:27 AM (Viewed 10/5/2019 11:32 AM)	
U using fixture plate in vf2?		
	10/5/2019 11:32 AM	
	There wasn't room to get 2 on it so I used one of the old ones	
	10/5/2019 11:33 AM	_
	And I had 46 yill a day on a day in the first of	
	And I had to put a clearance pocket in the fixture  10/5/2019 11:36 AM (Viewed 10/5/2019 11:42 AM)	
Brian Work		
Gotcha do what u have to		
Brian Work	10/5/2019 11:41 AM (Viewed 10/5/2019 11:42 AM)	
l am Hoping vf2 proves to be faster and more accura- axis looked at	te than anything we currently have. Will get y	
	10/5/2019 11:42 AM	
	Well it's definitely faster!!!	
	10/5/2019 1:27 PM	
•	File attachment with MIME type: video/quicktime	
	Yeah just a little faster	-
Brian Work	10/5/2019 1:34 PM (Viewed 10/5/2019 1:37 PM)	
I thought these parts would be a decent test.		
Brian Work	10/5/2019 1:35 PM (Viewed 10/5/2019 1:37 PM)	
I was haulin some ass the other day on this smal	Il parts Cutting at 50 ipm on a .0625 is new to	
this guy	10/5/2019 1:53 PM	
	You should order a few extra 1/4 and 1/8 collets also	
Brian Work	10/5/2019 1:55 PM (Viewed 10/5/2019 1:58 PM)	
Done already		
	10/5/2019 2:24 PM	
	It's looking more like 3.5 hrs of runtime per part	





Copy of Purchase Order Number J0018FD2

University of Iowa - Protostudios

Coralville, IA 52241 US



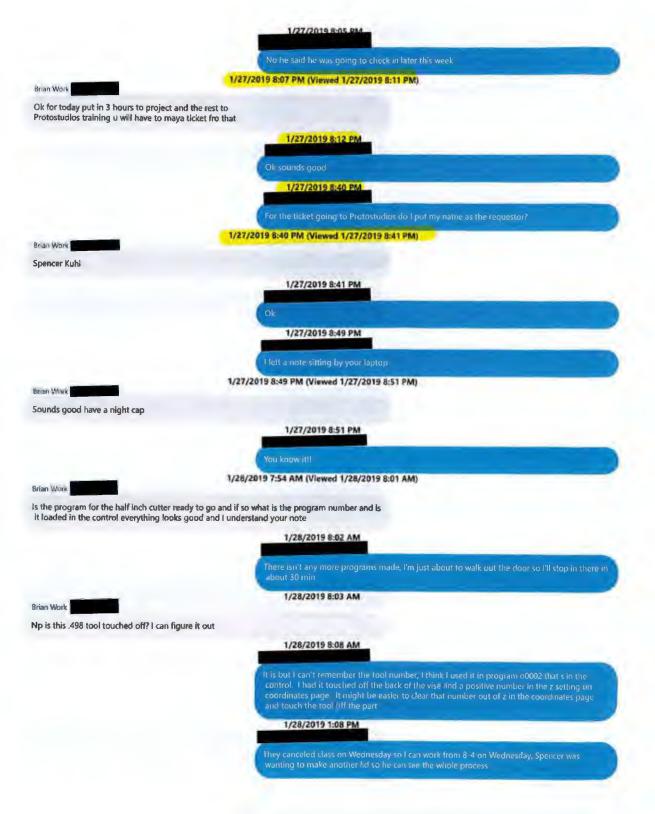
# INVOICE

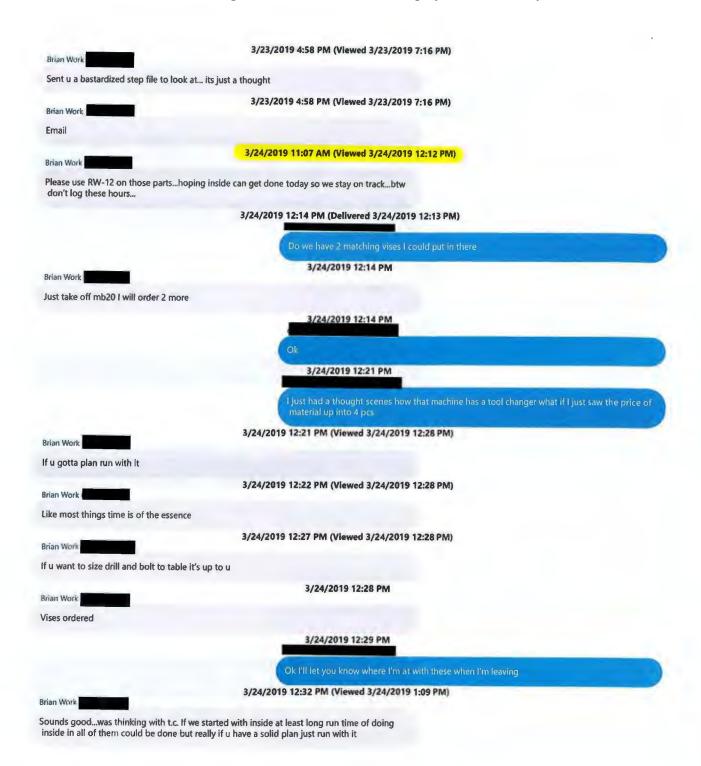
BILL TO Brian Busch D3signTech LLC NVOICE # 1252 DATE 11/08/2019 UE DATE 12/08/2019 ERMS Net 30

ACTIVITY	QTY	RATE	AMOUNT
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	1	936.00	936.00
Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1792 - (3) Plates anodize, bag & tag - 10/10/19	0.15	936.00	140.40
Froduct [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19		780.00	780.00
Frotostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1797 - (3) Plates anodize, bag & tag - 10/15/19	0.15	780.00	117.00
	1	936.00	936.00
Protostudios Service Fee (15%) Protostudios Service Fee (15%) for [ExGen] Machining Services - 11/08/2019 - Machining Services / Spencer Kuhl: 1809 - ProtoStudios ball parts - 10/27/19	0.15	936.00	140.40
	PAYMENT BALANCE DUE		3,049.80 <b>\$0.00</b>

#### Warranty/Indemnification

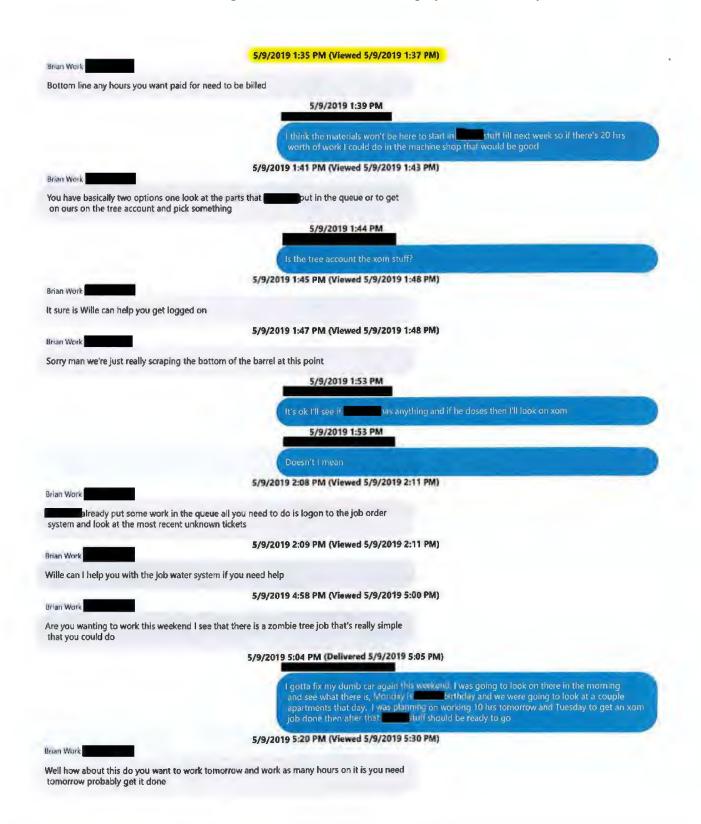
All product and services delivered are delivered to Client at Client's sole risk and are "as is" without warranties of any kind, either express or implied, including all implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, and any warranties arising from a course of dealing, usage or trade practice.

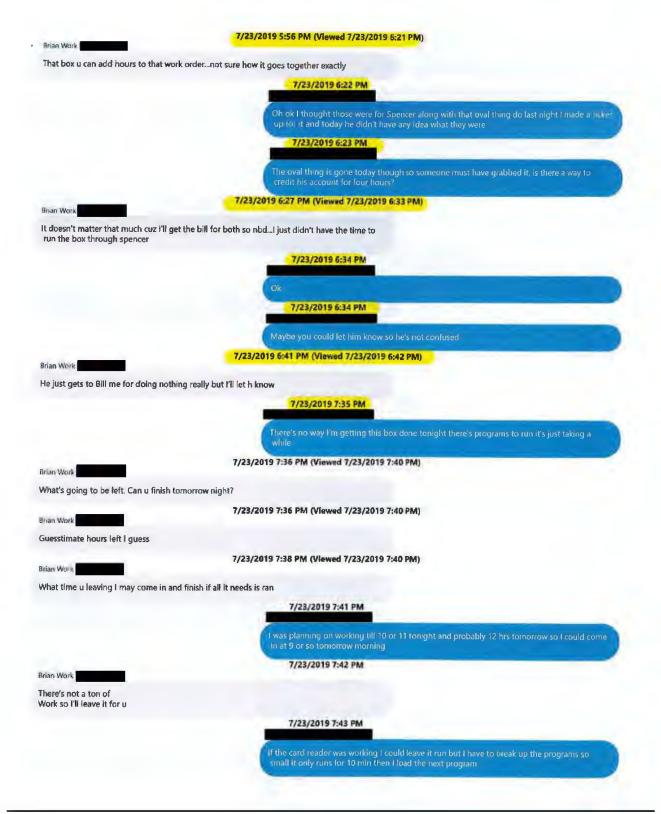




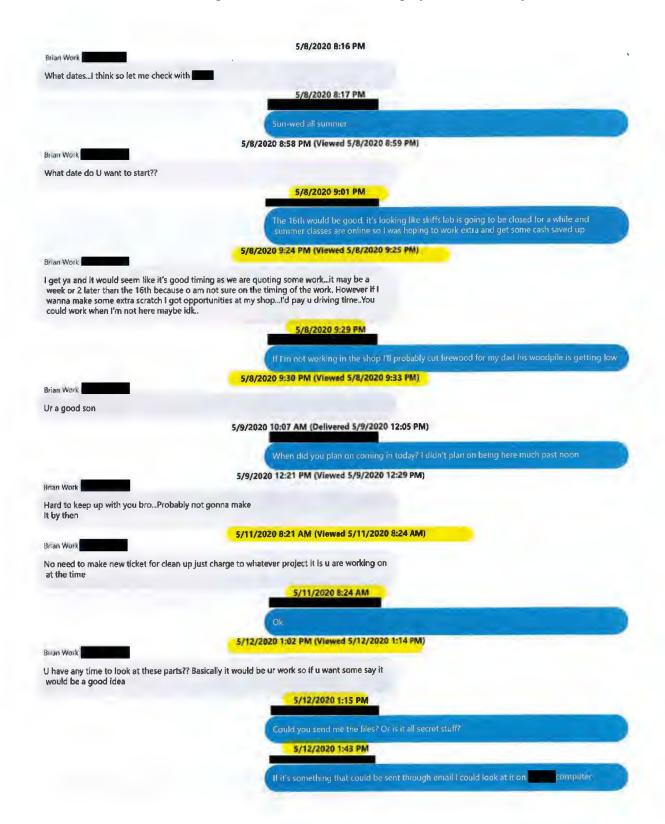
	3/24/2019 8:39 PM
	In case the email didn't work I left the flash drive stick with willy that has the files in the brass parts folder
Brian Work	3/24/2019 8:40 PM
	ust Also be sound flats outside the pocket
	3/24/2019 8:41 PM
	the first of the first of the second of the
	Yeah that was the back of that ear that was at a different z level then the rest  3/24/2019 8:42 PM
	3/24/2019 8:42 PM
	It'll make sense when you see the models
ar an Work	3/24/2019 8:42 PM
Ok have a good one	
•	3/24/2019 8:43 PM
	I used the model you had made up but extended the surfaces to the edge of the parts so there's more room for bolts
	3/24/2019 8:43 PM (Viewed 3/24/2019 8:49 PM)
rian Work	
iotcha	3/25/2019 8:25 AM (Viewed 3/25/2019 8:29 AM)
brian Work	3/23/2013 0:53 Mai (aleasen 3/23/2015 0:53 Mai)
o for some reason I can't open your Fil center of the parts	les so is your date him in the center of the bar or the
	3/25/2019 8:31 AM
	The ones that are on the flash drive or in email
	3/25/2019 3:48 PM (Viewed 3/25/2019 3:51 PM)
rian Werk	3/23/2013 3.40 FM (***********************************
io ahead and log ur time yesterday as we could deliver and they were sugges	training. I had to throw those back as there is no way ting it so I had no legs to stand on
rian Work	3/25/2019 3:48 PM (Viewed 3/25/2019 3:51 PM)
oo short of a pull this time	
ov store of a pair this time	3/25/2019 3:52 PM
	Ok
	3/27/2019 6:00 PM
	Should I charge time to a ticket for today?
	3/27/2019 6:23 PM (Viewed 3/27/2019 6:26 PM)
rian Work	
es it's a u xom job	

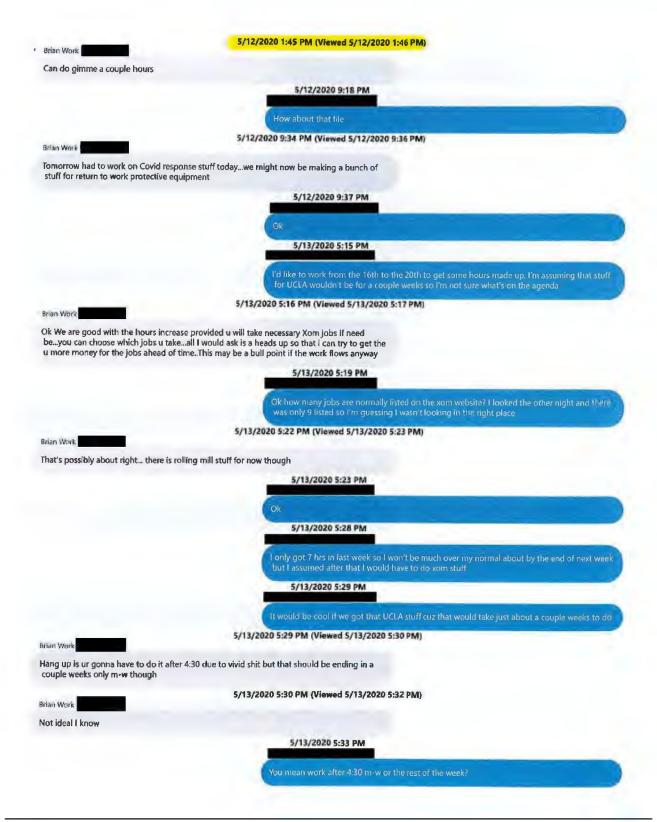




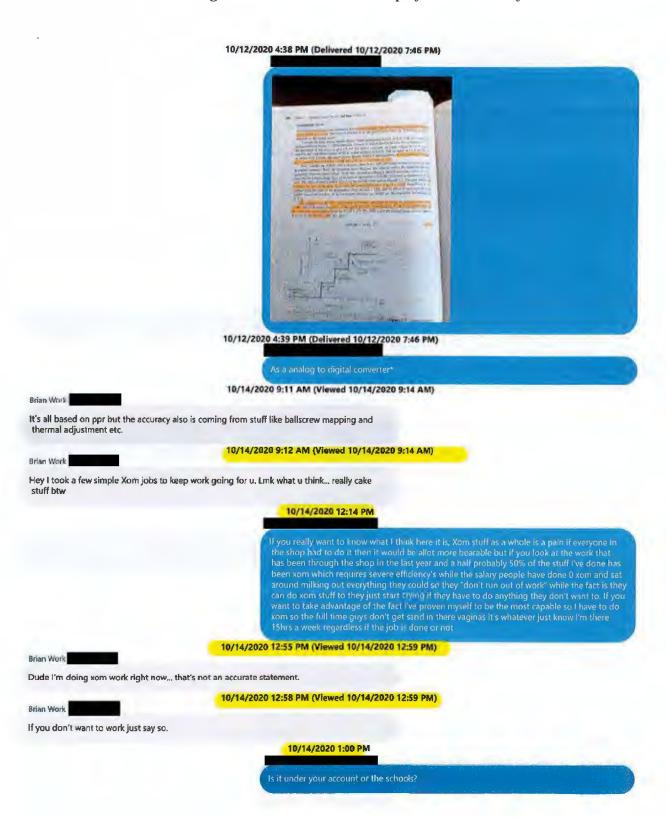


And we probably had this discussion and	I forgotur doing it right then	
Brian Work	10/25/2019 10:07 AM (Viewed 10/25/2019 10:13 AM)	
I put the Threadmill on your toolbox I'm r	not in today so you'll have to go upstairs at some here should be a T-slot cutter in there that will work	
point and grab are ston from the shop to	10/25/2019 10:47 AM (Viewed 10/25/2019 11:07 AM)	
Brian Wark	14/24/24/2 10/4/ Mill (Alanen 14/24/24/2 17 11/4/ Mill)	
From the shipping room that is		
	10/25/2019 11:07 AM	
	Ok	
Brian Work	10/25/2019 11:08 AM (Viewed 10/25/2019 12:11 PM)	
Turns out I bought it personally so now I	own a t slot cutter so I'll bring it tomorrow	
	10/25/2019 12:11 PM	
	Ok	
Brian Work	10/25/2019 12:19 PM (Viewed 10/25/2019 12:26 PM)	
How many hours u need this weekend? But can do some 5s stuff if u want	asically this job is 10 charged hours and then	
	10/25/2019 12:27 PM	
	I was thinking 35, who should I charge the ticket to?	
	10/25/2019 12:31 PM (Viewed 10/25/2019 1:20 PM)	
Brian Work		
Protostudios make on and make Spencer	Kuhl the requestor	
Brian Work	10/25/2019 12:32 PM (Viewed 10/25/2019 1:20 PM)	
Actually marry comes to more like 12		
	10/25/2019 12:33 PM (Viewed 10/25/2019 1:20 PM)	
Brian Work		
But 3 hours of shop time etc is fine		
	10/25/2019 2:15 PM	
	Do I need to go the mail room to get anything then?	
	10/25/2019 2:19 PM (Viewed 10/25/2019 2:21 PM)	
Brian Work		
it i have time it would nelp it you could gr	rab whats there for the shop and put in my office	
Brian Work	10/25/2019 2:23 PM (Viewed 10/25/2019 2:26 PM)	
U have time that is		
	10/25/2019 2:26 PM	
	I'll run up there	



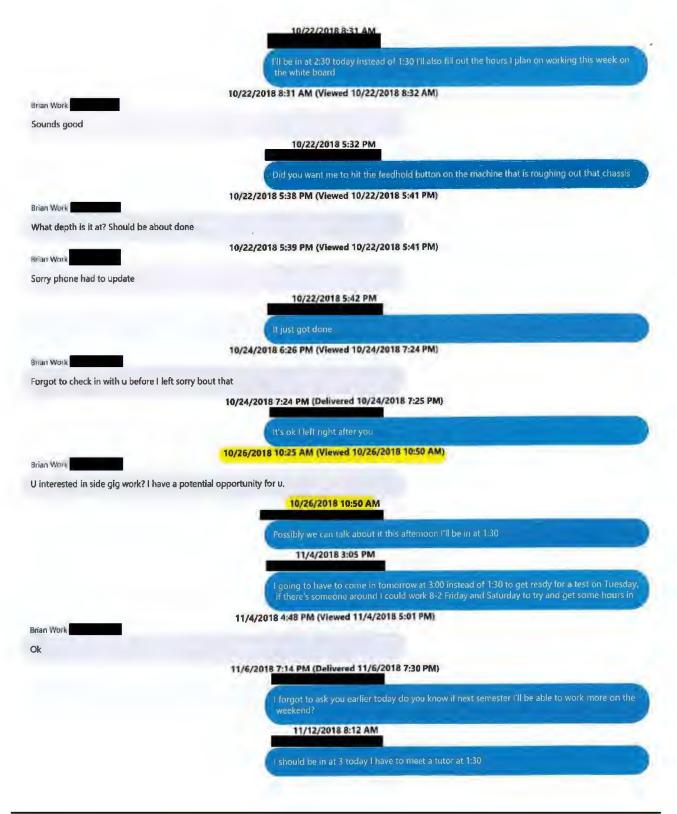


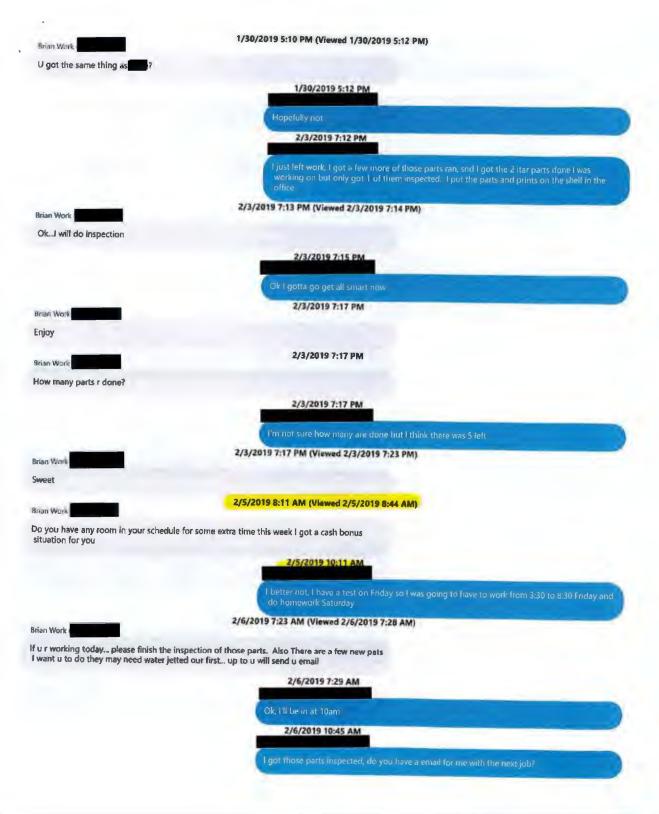
had company come to me with com	ne titanium parts to make I would like to run them
had someone come to me with some through Proto studios and have you	make them are you interested
	6/1/2020 12:30 PM
	I'll look at them tonight, you could leave a model on a disc and leave it on my box
	6/1/2020 12:31 PM (Viewed 6/1/2020 2:46 PM)
trian Work  OK I'll leave the models on the box for milling I don't think you'll see a prob	or you they are fairly simple leave parts with a little bit of olem with them
	6/1/2020 5:11 PM
	Those parts don't look to bad, I've never messed with titanium so I'm not really sure how it cuts
rian Work	6/1/2020 5:13 PM (Viewed 6/1/2020 5:19 PM)
	: harden but if using proper speeds and feed not bad at
all mills easily drilling can be tricky	so we should get carbide drills for it
	6/1/2020 5:20 PM
	Would they be made from round stock or from a plate?
	6/1/2020 5:20 PM (Viewed 6/1/2020 5:24 PM)
Brian Work	744
Round will be best use of material in	nho
	6/1/2020 5:26 PM
	Doing the round stuff on the lathe would probably be better but my lathe skills aren't that
	great and because they have to go on the frill anyway I'd rather do them all on the mill, I don't know how that would effect the cost of material though
	6/1/2020 5:26 PM
Brian Work	
Out of squares??	
	6/1/2020 5:27 PM
	Yeah just one plate then I could do all 15 at once
	6/1/2020 5:30 PM (Viewed 6/1/2020 5:31 PM)
Brian Work	
Can you fixture round vertical and de	
Brian Work	6/1/2020 5:31 PM
1" round?	
	6/1/2020 5:34 PM
	I don't know how I would hold onto it, the only way I can think of to do it in the allotted
	amount of time is to use one plate, use tabs and do them all at once granite it is very waste



	A STANDARD CONTRACT LABORATION OF DEAL
Brian Work	10/14/2020 1:01 PM (Viewed 10/14/2020 1:02 PM)
The schools Browe've discussed this.	
Brian Work	10/14/2020 1:03 PM (Viewed 10/14/2020 1:05 PM)
U should probably look at the jobs before	freaking outcuz they are easy.
	10/14/2020 1:05 PM (Viewed 10/14/2020 1:08 PM)
Brian Work	
	y work when it's needed. Ur first statement was not n find another pt job that pays 24/hr and let's u
Brian Work	10/14/2020 1:32 PM (Viewed 10/14/2020 1:37 PM)
	we start another project it's either xometry work t we can only spend so much time on shop r it.
	10/14/2020 1:39 PM
	How about this during the school year xom stuff gets spread out to everybody
Brian Work	10/14/2020 1:41 PM (Viewed 10/14/2020 1:44 PM)
	hours. The work I took for u is less than that and ing to help u out believe it or not
	10/14/2020 1:47 PM
	We could talk but just so your aware thind willy have both said to me "if we speed up we'll run out if work and xom is great as long as I don't have to do it"
Brian Work	10/14/2020 1:52 PM (Viewed 10/14/2020 1:56 PM)
	shit. U have a pretty good gig as we all do
	10/14/2020 1:58 PM
	And there was another time where a direct quote from willy was "I don't have to do xom, perk a being full time" scenes how we're getting it all out there thought you should know
Brian Work	10/14/2020 1:59 PM (Viewed 10/14/2020 2:07 PM)
He was fucking with you cuz he doesn't c	are for all the bullshit
A . W (	10/14/2020 1:59 PM (Viewed 10/14/2020 2:07 PM)
rian Work  Villy doesn't care what he does. He just do	nes it
villy account care what he does. He just do	10/14/2020 2:01 PM (Viewed 19/14/2020 2:07 PM)
rian Work	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
get that ur stressed out: the xometry work	k I picked is cake. Honestly take yes for an answer
	10/14/2020 2:04 PM (Viewed 10/14/2020 2:07 PM)
rian Work	10/14/2020 2.04 FIN (FIGHER TO) 15/2020 2.07 FIN)
	some relief also. Just don't pick hard ass jobs
Brian Work  When we are slowXometry can allow us s	

•	10/14/2020 2:12 PM (Viewed 10/14/2020 2:19 PM)
Brian Work	
share. I really don't care about that, positive direction just go with the flo come through. Everyone in our shor	ne will be happy and I'll get the blame for more than my lis a team player as am I. Things are moving in a low. I want you on board for tracers and it's starting to o respects your abilities. Don't worry about things beyond perfect for u right nowdon't let other bs get in ur way.
	10/15/2020 7:47 AM
	Turns out there isn't anything for me to do in the lab today so I could come in and work on whatever in the shop this morning for a few hours. Is the machine open today?
	10/15/2020 7:52 AM
	Or I could start organizing the stock shelf in the back room
to the same of the	10/15/2020 8:07 AM (Viewed 10/15/2020 9:00 AM)
Brian Work	Transcription of the second of
Ok haas will be lopen about 10	
Brian Work	10/15/2020 9:17 AM (Viewed 10/15/2020 11:40 AM)
Scratch that mb20 is down. Need has	ıs
Brian Work	10/16/2020 8:11 AM (Viewed 10/16/2020 8:14 AM)
Time u be in today?	
	10/16/2020 8:14 AM
	19/19/2020 0.14 100
	About 1:30
Br an Work	10/16/2020 11:48 AM (Viewed 10/16/2020 12:34 PM)
Btw we have until the 28th to deliver	that brass jobso as little "pressure" as possible.
	10/16/2020 12:34 PM
	Sweet, I'll be in in about 30 min
	10/16/2020 4:08 PM
	Did the reamer come in for those holes?
	10/16/2020 5:09 PM
	Those are here right?
	10/16/2020 7:52 PM (Viewed 10/16/2020 7:59 PM)
Brian Ware	
We have wire size reamers yes	and the same and t
	10/16/2020 8:00 PM
	I see I thought you ordered reamers specific for this job
A 30	10/16/2020 8:02 PM (Viewed 10/16/2020 8:15 PM)
Brian Work	
I can tell me what u want	





Text Messages from Brian Busch to Employee – Enticements

3/24/2019 2:12 PM (Viewed 3/24/2019 2:32 PM)

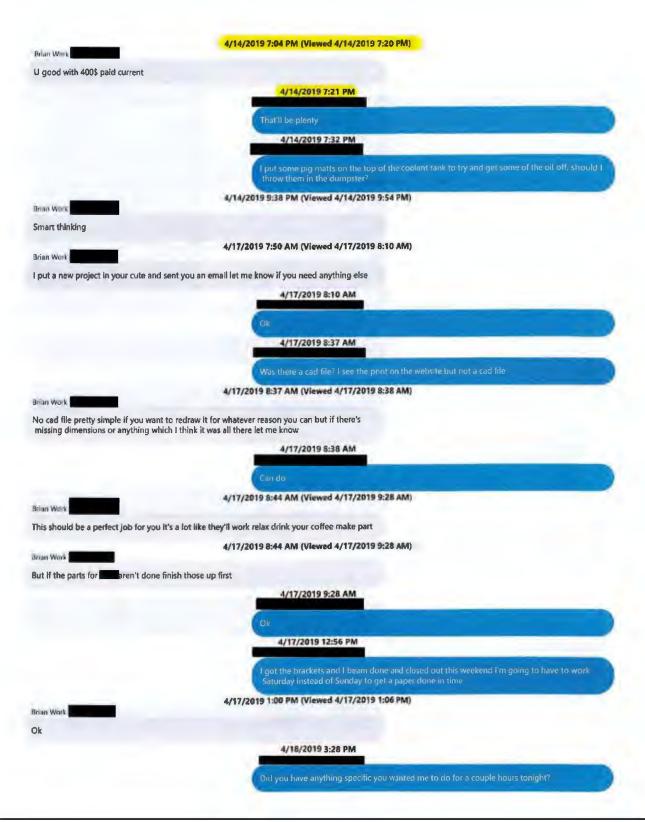
Brian Work

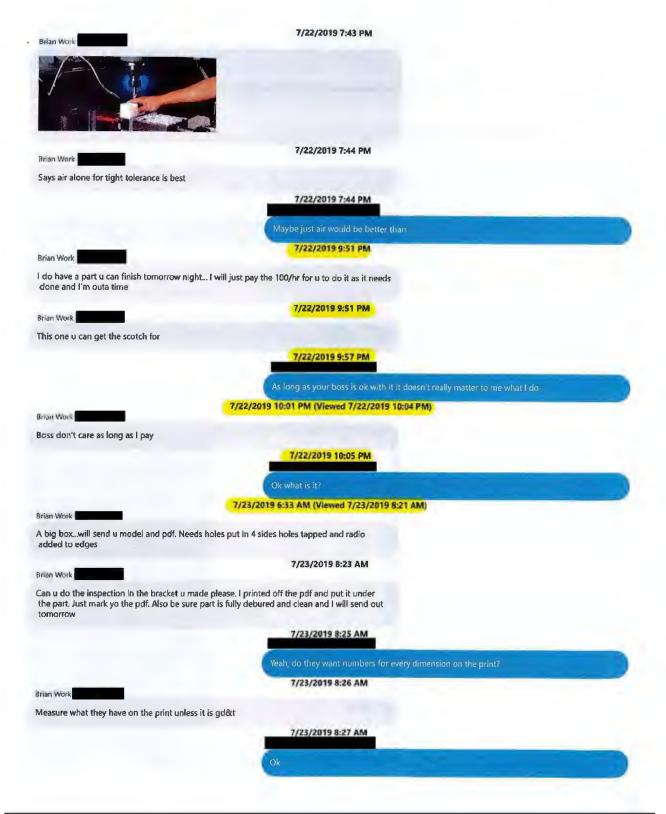
Btw if u want to work long enough to get them done if possible I will make it more than worth ur time... like triple+ what u normally get. I just don't have time.

3/24/2019 2:33 PM

I really can't this week I have 4 tests in the next week and a half that are 20% of my grade eac

	3/27/2019 6:41 PM
	don't know much about the different coatings
Notice March	3/27/2019 6:41 PM
Brian Work  Was it dark in color or yellow?	
ribs (cadit in color of yellow:	3/27/2019 6:42 PM
	I don't think it was coated, I was silver and shiny
Irian Work	3/27/2019 6:42 PM (Viewed 3/27/2019 6:44 PM)
Hmm probably not then	
	3/27/2019 6:45 PM
	4 flute cutters are great when there isn't allot of chips but in aluminum if your getting after it I prefer 2 flute
institute of	3/27/2019 6:45 PM (Viewed 3/27/2019 6:54 PM)
Fran Work	
Agreed	3/27/2019 6:46 PM (Viewed 3/27/2019 6:54 PM)
irlan Work	5/21/2019 0:40 PM (VIEWED 5/21/2019 0:54 PM)
flute are nice but hard to measure diameter or	
	3/27/2019 8:42 PM
	I'm not going to be able to come tomorrow I have to go to tutoring and get ready for my test on Friday
of the stand	3/27/2019 9:06 PM (Viewed 3/27/2019 9:08 PM)
rian Work	
JK	3/27/2019 10:31 PM
	I just stopped into the shop and started the last program I had made, the only thing left is to cut the small through pocket and tab them out
inan Work	3/27/2019 10:35 PM (Viewed 3/27/2019 10:39 PM)
weetthanks man	
	3/28/2019 4:32 PM (Viewed 3/28/2019 4:46 PM)
Irian Work	
Jr her tomorrow at 3:30?	3/28/2019 4:46 PM
	3/20/2013 4740 FM
	Yep
Wall	3/28/2019 6:55 PM (Viewed 3/28/2019 6:56 PM)
have your nectar of the gods you must remind	me to give it to you
mers your recom or the gods you must remind	3/28/2019 6:56 PM
	Fur sure

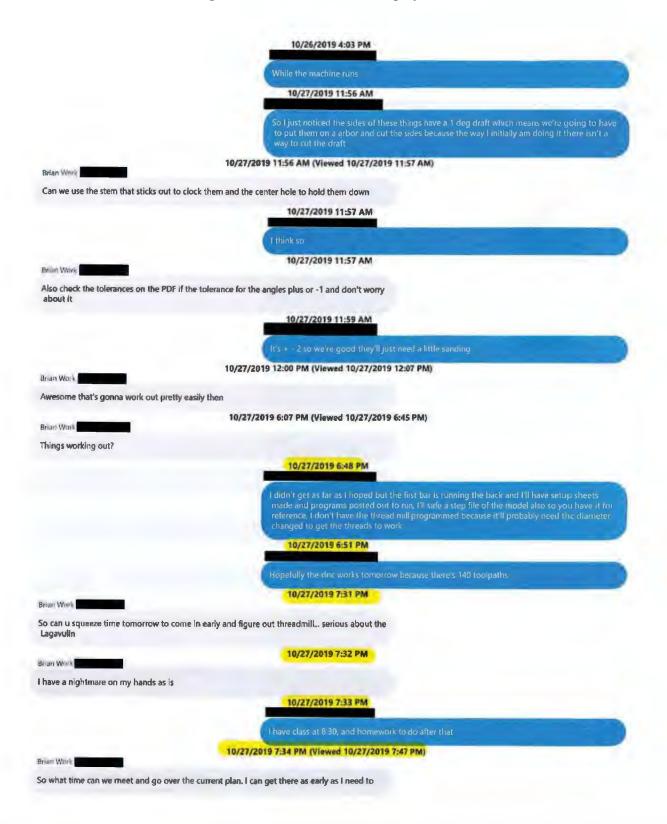


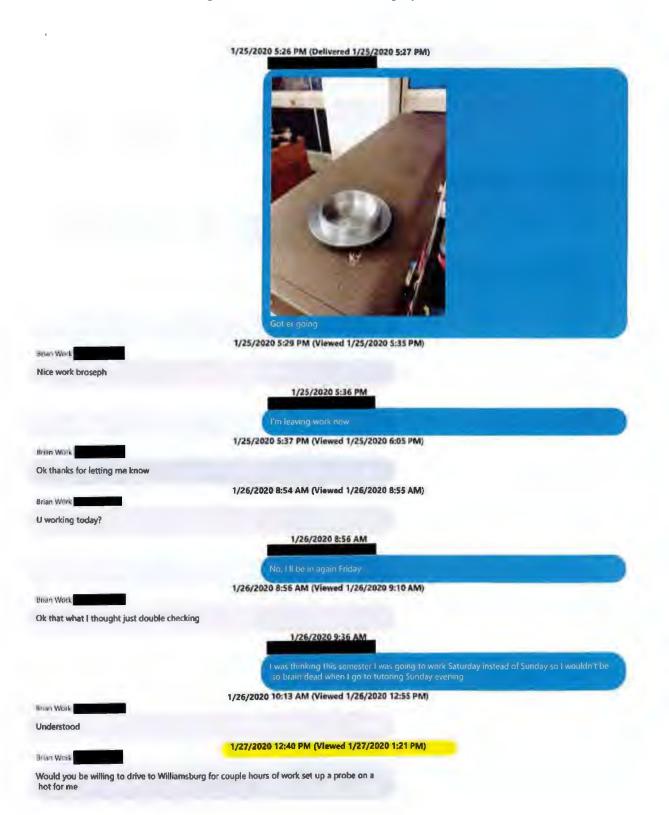


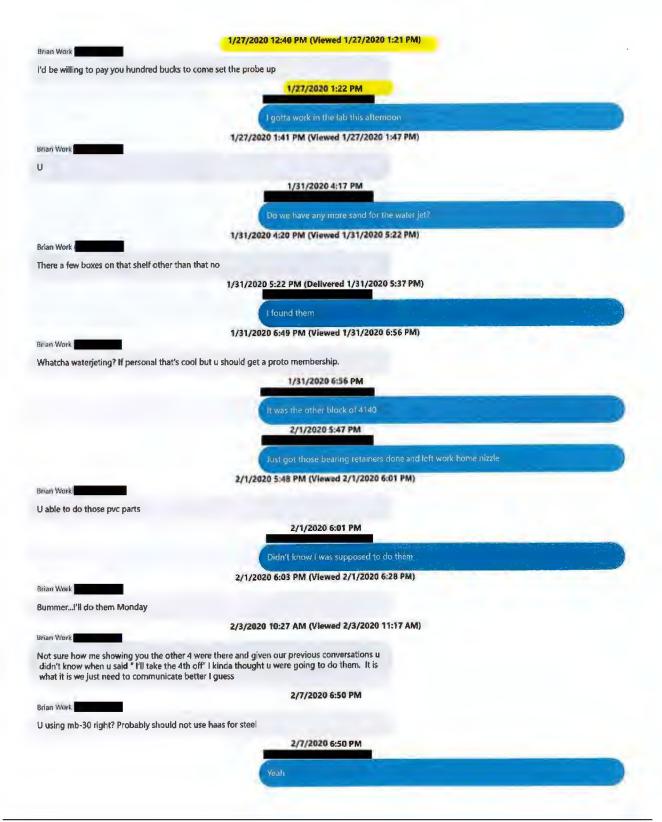
rian Work	10/18/2019 11:10 PM
	get both vices running then cycle time is 2 hours? Did 2
	10/18/2019 11:13 PM
	I think willy was going to finish up the other set on Sunday, if you can you should stop in and look at the finish it might be better than it needs to be so if it is I could increase the step over also if you knew of a radius dovetail cutter that might get the small stuff around the dome good enough
rian Work	10/18/2019 11:16 PM (Viewed 10/18/2019 11:34 PM)
asically it's all aesthetic in that featur steps then it's good to go	re so just taking a dovetail cutter around a few different
rian Work	10/18/2019 11:17 PM (Viewed 10/18/2019 11:34 PM)
is long as finish is ok there was no sp ncrease stepover	recific call out so if it saves a few hours of run time just
rian Work	10/19/2019 10:29 AM (Viewed 10/19/2019 11:48 AM)
ince the cycle times on those parts a ne it's another box but it just needs l hat would be greatly beneficial	re so long can you handle starting another project for hollowed roughed out if you can start that on the RW 12
rian Work	10/19/2019 10:29 AM (Viewed 10/19/2019 11:48 AM)
1000	on all surfaces simply rough it out for now I just need to
	10/19/2019 11:51 AM
	Sure
rian Work	10/19/2019 12:41 PM (Viewed 10/19/2019 12:43 PM)
Il make it worth the effort	
	10/19/2019 12:52 PM
	191 try
rian Work	10/19/2019 12:58 PM (Viewed 10/19/2019 1:02 PM)
200	nple. 1 cutter and rough thing. Then I'll cut extra off of
rian Work	10/19/2019 1:09 PM (Viewed 10/19/2019 1:13 PM)
ilso have some other parts I want u to	o give me ur opinion on
	10/19/2019 1:14 PM
	Ok

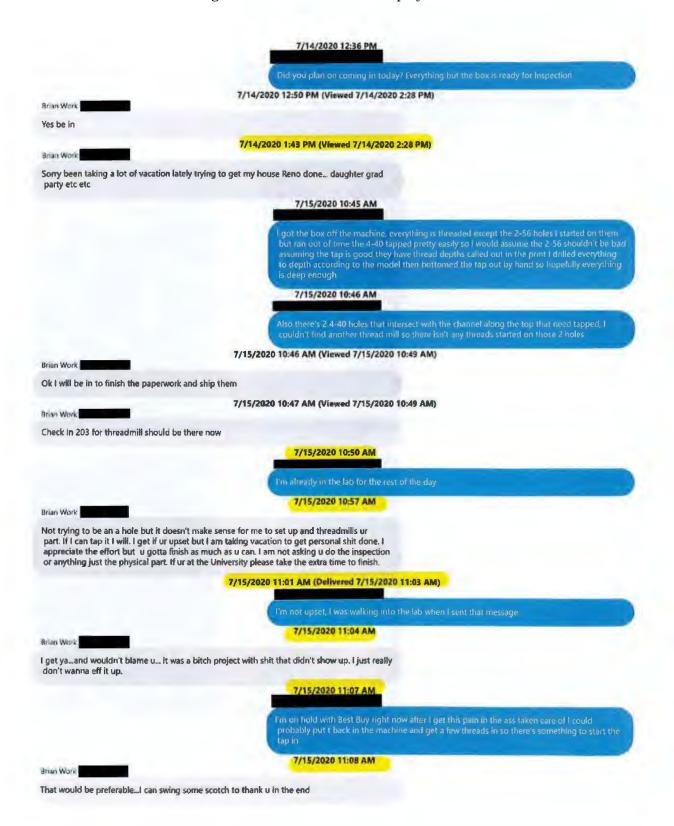
Brian Work	10/25/2019 3:47 PM (Viewed 10/25/2019 4:22 PM)
T slot hasn't shown up yet u may have hand	to grind something or hopefully we have something on
	10/25/2019 4:22 PM
	Ok
W. W. W.	10/25/2019 5:31 PM (Viewed 10/25/2019 5:32 PM)
Brian Work  How much band width do u have this v mb30Simple simple. I would make it though I'd offer cuz u might need the	weekend? I have some other parts I could run on right with u for the extra effort. I can do them np but I \$
	10/25/2019 5:34 PM
	111349 the idea on the handwidth thing but I don't really have much time to spare this week-and, if I get those round parts done early I could probably mess with them then
rian Work	10/25/2019 5:37 PM (Viewed 10/25/2019 5:38 PM)
Ok just thought u might have down tim ship Monday and really the other thing	ne in between cycle time on haas. Those other parts g is not time sensitive at all
	10/25/2019 5:39 PM
	I grabbed a couple boxes from the shipping room and put them in the office today, was there a working pdf for the round parts? The one that was in the initial e-mail won't open
rian Work	10/25/2019 5:44 PM (Viewed 10/25/2019 5:48 PM)
Pk I'll resend	
No. Work	10/25/2019 5:48 PM
ent u new pdf	
<b>pa</b>	10/25/2019 5:50 PM
	That one worked
	10/25/2019 5:50 PM
	We wouldn't happen to have a 12 deg cutter would we?
	10/25/2019 5:52 PM (Viewed 10/25/2019 5:53 PM)
narr Work	
	ith a flat em and super shallow step down
ro just gorina have to 2 leves missi it wi	10/25/2019 5:53 PM
o just gorina navo (o 2 loves milan k vi	
o jast gorina hate to 2 level milatric el	Ok
o jaon gamia hare to 2 level milant en	Ok 10/25/2019 5:56 PM
o jasi gama nare to 2 leve inimit e e	10/25/2019 5:56 PM
o jaon gamia hare to 2 level milant ( el	



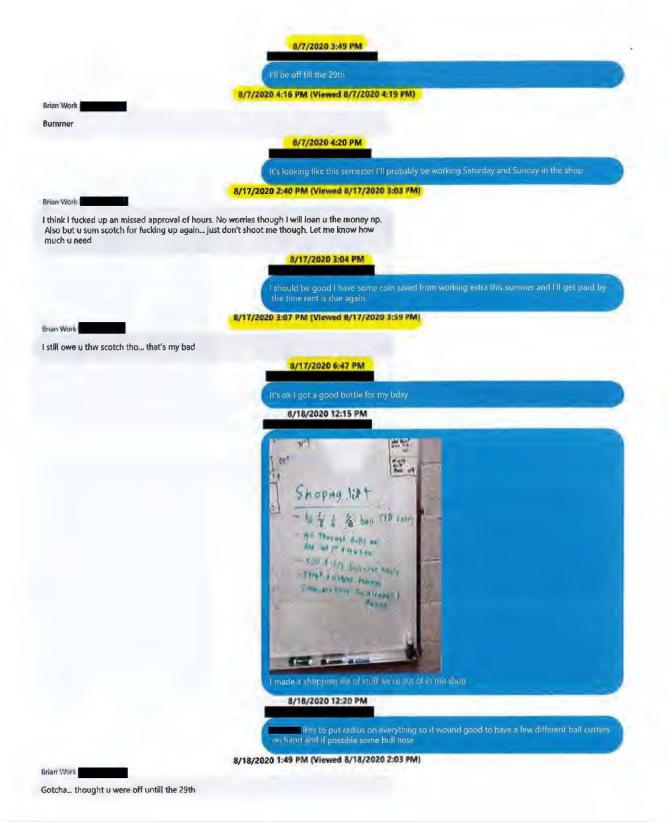














Brian Work	12/10/2020 11:20 AM (Viewed 12/10/2020 11:21 AM)
Nether does but he's gat a machin	ne in a garage
Brian Work	12/10/2020 11:20 AM (Viewed 12/10/2020 11:21 AM)
Ur missing an opportunity	
	12/10/2020 11;23 AM
	Thoules are constilled by
	Thanks anyway I'll have more than enough on my plate for the next 4 or 5 years with school and the stipulations of getting into grad school
Brian Work	12/10/2020 11:45 AM (Viewed 12/10/2020 12:13 PM)
Just trying to help a brother out you'd m make the commitment	ake way better money but I get it if you don't wanna
Brian Work	12/11/2020 9:44 AM (Viewed 12/11/2020 10:26 AM)
Got u a part will have Spencer send u fil	es
	12/11/2020 9:45 AM (Viewed 12/11/2020 10:26 AM)
My guess is 18 hours to make them	
ny gassa is to hours to make diem	12/11/2020 9:46 AM (Viewed 12/11/2020 10:26 AM)
Srian Work	
forry 4 all the same though should be abi	e to picture frame and tab them
	12/11/2020 10:29 AM
	Maybe I should have specifically said I'm not working again till Wednesday, all my finals are Monday and Tuesday so I gotta have the weekend to get ready for them
Brian Work	12/11/2020 11:01 AM
Jmm well that definitely sux	
	12/15/2020 11:22 AM
	Contract
	If I take a job on xom can you get some 1.25x.625 6061 bar stock here by tomorrow 12/15/2020 11:26 AM (Viewed 12/15/2020 11:27 AM)
rian Work	12/13/2020 11:20 AM (VIEWED 12/13/2020 11:27 AM)
have a job lined up for u already	
	12/15/2020 11:27 AM
	Qs that work at Just finished up my last final so I'll be in tomorrow
ian Work	12/15/2020 11:27 AM (Viewed 12/15/2020 11:28 AM)
ool can u make a long day tomorrow ther	52
- mana a rong day comprion ther	12/15/2020 11:28 AM
an Work	IN THE PROPERTY OF THE PROPERT
will send you the files in a second	
	12/15/2020 11:28 AM