

## sdmay19-03: 3D Metal Printer - Phase II

Semester 2 Week 3 Report

February 11th - February 15th

Client/Advisor: Dr. Bigelow

### Team Members

Thomas Waters — *Computer Engineer*

Ariel Rizhsky-Yakobson — *Computer Engineer*

Jacob Gosse — *Electrical Engineer*

Alvin Rymash — *Electrical Engineer*

Armand Hernandez — *Software Engineer*

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### Summary of Progress this Report

The mounting bracket has been completed and picked up to be tested on the 3D metal printer. A few more measurements were taken for the wiring of the 3D metal printer. We realized that we will need wire extenders or pull more wire through. We will have to ask Dr. Bigelow these questions when he returns from his leave. The computer is also fixed and is in working condition.

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### Pending Issues

With Dr. Bigelow gone, we didn't have our weekly meeting to discuss the progress of the printer or the progress of the mechanical engineers.

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### Plans for Upcoming Reporting Period

Our plans for the upcoming week are to test and make sure that the mounting bracket works. This will be tested to see if it fits on the printer as well as connecting the laser mount to it. We also will plan to start mounting the print and powder beds to the smaller stepper motors. Also, we will ask Dr. Bigelow our questions about the wiring.

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### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Thomas Waters	Collected the mounting bracket from the chemical workshop. Emailed Dr. Bigelow about our meeting time, which didn't happen.	2	11
Ariel Rizhsky-Yakobson	Read the laser safety manual and laser manual.	2	11

Jacob Gosse	Measured electrical wiring and had a list of wiring concerns.	2	11
Alvin Rymash	Measured electrical wiring and had a list of wiring concerns.	2	11
Armand Hernandez	Continued work on the 3D model slicing and parsing to gcode	2	11