sdmay18-05: 3D Metal Printer
Week 10 Report
November 26 - December 3

Team Members
Ben Pieper — *Algorithm Developer/Connector Researcher*
Jett Ptacek — *Algorithm Developer*
Kevin Oran — *Mechanical Design/CAD*
Caleb Toney — *Sensor Researcher*
Rachel Shannon — *Planner*

Summary of Progress this Report
Continued development on slicing software, reviewed designs with machine shop, finalized and ordered vacuum electrical passthroughs, worked on getting final quote for Velmex components.

Pending Issues
Still waiting on response from Velmex regarding the quote for their components, need to finish all drawing files in order to get them to the machine shop.

Plans for Upcoming Reporting Period
Get the Velmex components ordered, and have all drawings in to machine shop so that manufacture can happen during winter break.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Ben Pieper	Ben completed the first working revision of the slicing algorithm. There are still some bugs but for most .stl files it performs as expected. Ben also placed the final order for the vacuum electrical passthroughs.	10	
Jett Ptacek	Jett worked on the visualization components of the GUI application, so that the output of the slicing algorithm could be visualized. Jett also helped to troubleshoot and identify bugs in the slicing software.	8	62
Kevin Oran	Kevin finished the mechanical design of the box and slide components. He began integrating all connectors and interfaces into the box design, communicated with the chemistry machine shop to ensure the design could be manufactured, and worked on	14	80

	preparing final drawings to send the designs for manufacture. Kevin also worked with Velmex to obtain a quote for their products.		
Caleb Toney	Caleb performed some initial investigations into the operation of the internal pressure sensor, and plans to start looking into the I2C interface of the sensor.	6	45
Rachel Shannon	Rachel worked to set the team's goals and assign tasks to be completed by the presentation during dead week.	6	43