

sdmay18-05: 3D Metal Printer

Week 2 Report

September 10 - September 16

Team MembersJett Ptacek — *Meeting Facilitator*Rachel Shannon — *Scribe*Ben Pieper — *Electronics*Caleb — *Time keeper.*Kevin Oran — *Mechanical lead***Summary of Progress this Report**

Printer model has been started. Brackets and mount for depositor actuator have been designed. Part of the team went to see one of the metal 3d printers currently used on campus.

Pending Issues

Team is still researching laser solutions. Current options: 2 axis stepper rails and an adjustable mirror. Both have pro's and con's.

Researching solution still. Final product needs safety sensors. Deciding

Plans for Upcoming Reporting Period

Further modeling work and peer review from manufacturing team. Further research into optic materials and sensors. Research interface for velmex sensors.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Jett Ptacek	Jett researched some options for Velmex products and prepared agendas for our meeting.	5	10
Rachel Shannon	Rachel organized the tour of the 3D printer.	5	10
Ben Pieper	Researched motor controllers from Velmex. We will probably end up using these to control the laser position/mirror.	6	11
Caleb	Researched some glass options with filters for some desired wavelengths.	5	10
Kevin Oran	Set up a GrabCad repository for the printer model.	9	14
