

sdmay23-13: Prosthetic arm

Week 5 Report

September 19 - September 23

Team Members

Erik Raman — *Software*

Jack Vetsch — *Electrical*

Jacob Eisbrenner — *Mechanical/ Electrical*

Scott Bolek — *Electrical*

Sean Gray — *Software/Electrical*

Jeremy Wallace — *Electrical*

Leo Forney — *Software*

Summary of Progress this Report

CAD design of mechanical parts began. Electrical schematics for power and motherboard started. MCU picked and code language decided on.

Pending Issues

The large group size has found issues with getting all team members together for meetings other than once a week.

Plans for Upcoming Reporting Period

Electrical schematics for at least one of the boards completed. Parts of mechanical aspects completed. The basic idea of EMG signals are understood and conceptualized by the team.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Erik Raman	Research on MCU, chosen MCU, high-level software solution and coding language selected	6	10
Jack Vetsch	Research on EMG signals acquisition and possible testing/ implementation solutions	6	10
Jacob Eisbrenner	Mechanical CAD work for hand parts research on motors and driving aspects of the arm	14	18

Senior Design Weekly Status Report

Page 2 of 2

Scott Bolek	Research on touch sensing hardware and design of BMS system	6	10
Sean Gray	Research on touch sensing hardware and design of BMS system	6	10
Jeremy Wallace	EMG amplifier design	8	10
Leo Forney	Research on MCU, chosen MCU, high-level software solution and coding language selected	6	10

Gitlab Activity Summary

Nothing to report.