

## **sdmay23-13: Prosthetic arm**

Week 6 Report

September 26 - October 2

### **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**

<b>Team Member</b>	<b>Contribution</b>	<b>Weekly Hours</b>	<b>Total Hours</b>
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	3	13
Jacob Eisbrenner	Mechanical CAD work for hand parts research on motors and driving aspects of the arm	14	18

# Senior Design Weekly Status Report

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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.