

Senior Design Weekly Status Report

Page 1 of 2

sdmay23-13: Prosthetic arm

Week 8 Report

October 10 - October 16

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

Work continued on mechanical hand CAD design with palm created. The amplification circuit was fully designed and breadboarding began. Work continued on the motherboard schematic for input and output pins. Battery chosen and BMS circuit breadboard work began. The software team continued to experiment with C200Ware and boilerplate embedded code generator for lib and driver generation.

Pending Issues

Current issue is getting parts due to supply chain issues happening around the world. Timing issues with group meetings have continued as semester midterms near and major projects in other classes begin to start.

Plans for Upcoming Reporting Period

Electrical schematics for the power board completed. Continue work on mechanical design. Work on implementation of the amplifier circuit and embedded systems code research.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Erik Raman	Experimentation with C200Ware and boilerplate embedded code generator work.	6	22
Jack Vetsch	Work on schematics and parts selection for motherboard and amplification circuit.	6	22

Senior Design Weekly Status Report

Page 2 of 2

Jacob Eisbrenner	Mechanical CAD work for hand parts and motors chosen.	10	38
Scott Bolek	EMG amplification circuit work and breadboard work. PCB design of power board and battery research.	6	22
Sean Gray	EMG amplification circuit work and breadboard work. PCB design of power board and battery research.	6	22
Jeremy Wallace	EMG amplification circuit work and breadboard work. BMS circuit breadboard work and design.	8	26
Leo Forney	Experimentation with C200Ware and boilerplate embedded code generator work.	6	22

Gitlab Activity Summary

Nothing to report.