

EE/CprE/SE 492 BI-WEEKLY REPORT 6

April 2nd – April 21st

Group number: *sdmay23-13*

Project title: *Prosthetic Arm*

Client &/Advisor:

Dr. Santosh Pandey

Team Members/Role:

Erik Raman — Software

Jack Vetsch — Electrical

Jacob Eisbrenner — Mechanical/ Electrical

Scott Bolek — Electrical

Sean Gray — Software/Electrical

Jeremy Wallace — Electrical

Leo Forney — Software

Bi-Weekly Summary:

As the project comes to a conclusion device assembly is beginning as well as software work making great headway to a functioning device.

During the time period:

Leo, Sean, and Erik:

Completed initializing pins as well as completed config files for later changes if needed.

Jacob:

Completed part orders, received PCBs and finished print job on prosthetic body, Began work on populating PCBs and assembling hand and forearm.

Jack, Scott, and Jeremy:

Began final documentation, updating design doc and related papers for final presentation

Pending issues

Successful tests needed

software needs to be tested

Device assembly must be completed

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this 2 week period</u>	<u>HOURS cumulative</u>
Jack Vetsch	Documentation	8	98
Jacob Eisbrenner	Forearm and Hand design, Motherboard, EMG, Driver board	52	298
Erik Raman	Software design, Motor control	8	80
Jeremy Wallace	Documentation	8	115
Leo Forney	Software design, Motor control	8	97
Sean Gray	EMG signals, amplifier design, Software design	8	90
Scott Bolek	Documentation	12	98
		104	876

Plans for the upcoming weeks :

- Assemble first iteration of final product
- Begin loading software work
- Begin testing functionality