ACTION ITEMS

TEAM 12: Active Prosthetic Arm

Due Date: Wednesday, April 17, 2019 5:30pm

The following are the Action Items from last week:

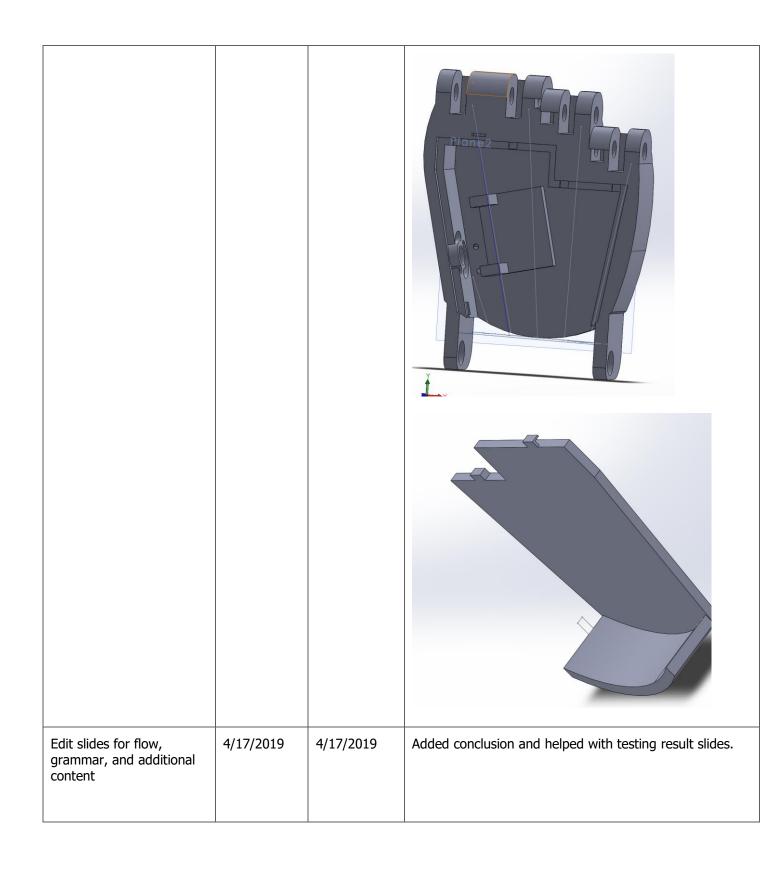
Team Member: Felicity Escarzaga

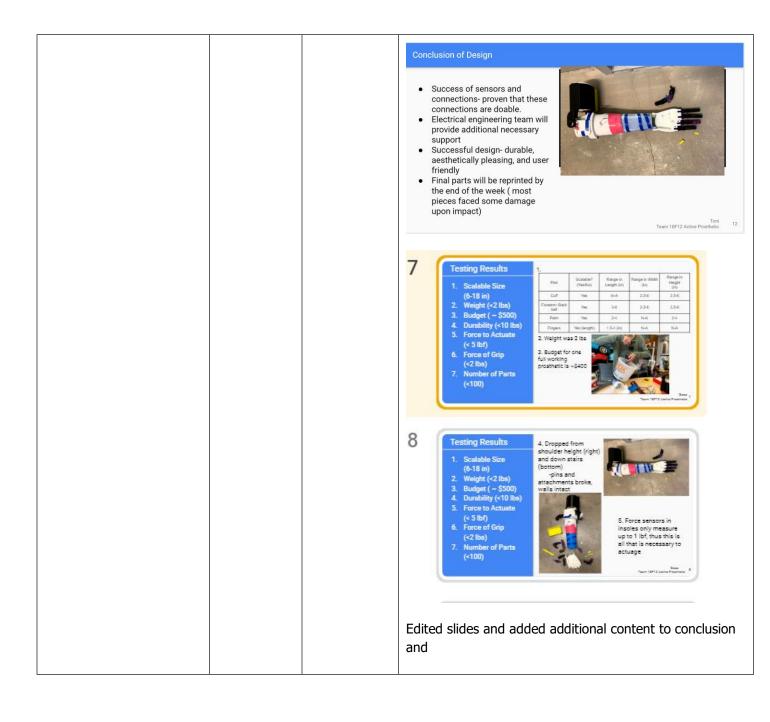
Action Item	Date Due	Date Completed	Result/Proof of Completion
Make final adjustments to foot case	4/17	4/14	Attachment to ankle added. Ports for on/off switch added.
Make final adjustments to electronics case			Length increased for perf board. Ports for on/off switch and walking/not walking switched added.
Code vibration motors	4/17	NA	Possibly fried redbot board need to borrow EE team's board. Not finished.
Dr. Winfree meeting	4/17	4/15	 Discussed what needs to be done to finish arm Suggested adding data logger at a later date Continued to print Forearm prototype since machine stopped when filament ran out
Created visual process for actuation	4/19	4/16	Visual will be used in UGrads poster to help explain actuation process

Complete Assigned Slides	4/17	4/17	Assigned slide not finished was manufacturing. Slide is updated for practice presentation. Manufacturing Main Mode of Manufacturing: 3D Printing 1. Model is adjusted in SolidWorks to fit client 2. Export to G-code a. This project uses Slic3r Prusa Edition to convert STLs of solid parts to G-Code b. The fill density is set to 40% for strength, and support is used on build plate only. c. Parts are individually assessed for best print orientation based on printer bed size. 3. Parts can now be printed a. Parts for this project were printed on the Prusa 13 MK3S. All other parts are purchased as is and minor soldering is required for some electronic connections.
Set Allison forearm to print	4/17	4/13	Met with group and showed members how to set prints by starting Allisons forearm print.

Team Member: Antoinette Goss

Action Item	Date Due	Date Completed	Result/Proof of Completion
Complete final palm	4/17/2019	4/12/2019	Made additions to the finger placement as well as improved the security of palm and palm top





Print palm for final testing prototype	4/12/2019	4/12/2019	Printing went really well with no issues
Test palm with assembly to make sure it meets engineering requirements.	4/12/2019	4/12/2019	 ested durability, scalability, weight, budget, number of parts, and forces

Team Member: Jannell Broderick

Action Item	Date Due	Date Completed	Result/Proof of Completion
Complete Assigned Slides	4/17	4/17	Customer/ Engineering requirements slide Customer Requirements: 1. Scalable a. To fit individuals 2. Lightweight a. For comfort and liftability 3. Haptic Sensing System 4. Customization 5. Aesthetical 6. Easy to Clean 7. Durable 8. Reliable 7. Reliable 8. Reliable 7. Click to sid title 7. Number of Parts (<100) a. Keep it simple 8. Reliable 8. Click to sid title 8. Click to sid title 8. Click to sid title 9. Click to sid title
Test Fingers with assembly to make sure it meets engineering requirements	4/12/19	4/12/19	Tested durability, scalability, weight, budget, number of parts, and forces

Write Final Testing Proof	4/12/19	4/12/19	Wrote analysis of tests including number of parts and scalability Final Product Testing Proof Apr 12, 2019 9:26 - 3
If minor changes need to be made to fingers after testing, make them	4/17/19	4/10/19	Added a through hole for the tendons. To allow the tendons to loop around finger. This decreases the number of parts needed for the prosthetic. Plane Apr 12, 2019 9.26 PM SUBMITTED Apr 12, 2019 9.26 PM SUBMITTED Apr 12, 2019 9.26 PM SUBMITTED
Created assemble final prosthetic	4/17/19	4/10/19	Assembled all updated parts and made an exploded view of assembly

Team Member: Allison Cutler

Action Item	Date Due	Date Completed	Result/Proof of Completion
Test Forearm with assembly to make sure it meets engineering requirements	4/12/19	4/12/19	Tested durability, scalability, weight, budget, number of parts, and forces
Write Final Testing Proof	4/12/19	4/12/19	 Created document Wrote introduction and results of most tests
			Final Product Testing Proof DUE: APR 12, 2019 PM Assignment SUBMITTED
If minor changes need to be made to forearm after testing, make them	4/17/19	4/10/19	
Work on UGRADS Poster	4/17/19	4/17/19	Active Prosthetic Hand Jamell Broderick, Allison Cutler, Felicity Escarzaga, Antoinette Goss Deputinent of Mechanical Ingineering, Northern Antonia Interestly, Hagistaff, AZ 80011 Background Jamell Broderick, Allison Cutler, Felicity Escarzaga, Antoinette Goss Deputinent of Mechanical Ingineering, Northern Antonia Interestly and Carly Infection And Control of Carly Infection Infecti

			introduction sentences to sections, and rearranged acknowledgments
Work on UGRADS Oral Presentation for practice presentation next class	4/17/19	4/14/17	Teaching Standards
			Security State Sec
Print new forearm	Unassigned	In Progress	 Felicity taught me how to use the 3D printer and we began printing the forearm

The following are the Action Items for next week:

Team Member	Action Items	Date Due
Felicity	 Print final cuff Print final ecase Print final fcase Check all code 	1. 4/23 2. 4/23 3. 4/23 4. 4/23
Antoinette	 Print final palm Print final palm top Complete user manual Assemble prosthetic with team Finalise poster 	1. 4/23/2019 2. 423/2019 3. 4/23/2019 4. 4/24/2019 5. 4/19/2019
Jannell	 Print new fingers for final design Finalize Poster and Presentation Complete user manual Assemble final prosthetic with team 	1. 4/24/2019 2. 4/24/2019 3. 4/24/2019 4. 4/24/2019
Allison	 Finalize UGRADS Poster Finalize UGRAD Presentation Print final forearm Assemble final prosthetic with team 	1. 4/19/19 2. 4/24/19 3. 4/24/19 4. 4/24/19 5. 4/24/19