


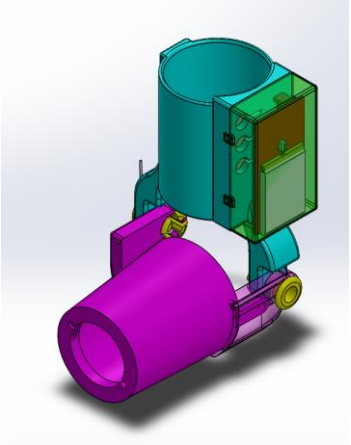
ACTION ITEMS



TEAM 12: Active Prosthetic Arm

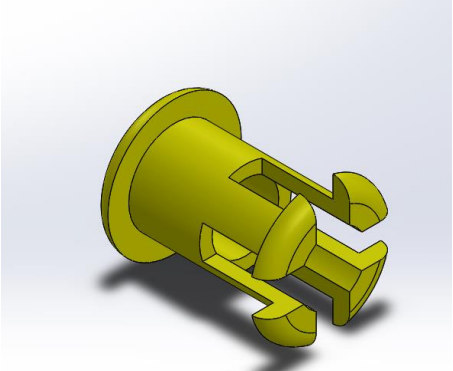
Due Date:
Wednesday, March 13, 2019 5:30pm

The following are the Action Items from last week:

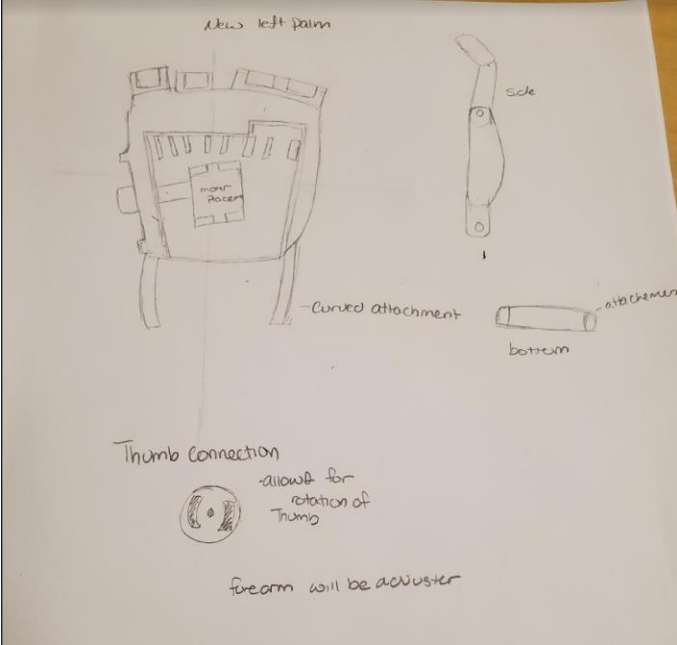
Team Member: Felicity Escarzaga


Action Item	Date Due	Date Completed	Result/Proof of Completion
1. Finish Midpoint Report	3/15	3/14	<ul style="list-style-type: none">Completed Sections 7.1.1Completed Sections 7.2.1Edited Sections Previously worked on 
2. Resize Cuff to fit forearm	3/27	3/16	Cuff size intersects forearm for attachment. 

<p>3. Reprint Cuff</p>	<p>3/27</p>	<p>3/27</p>	<p>Cuff reprinted not shredded. Electronics case fits and works properly. Cuff design is finished with scalability down to 2.25 inches diameter and up to 6 inches diameter before features break.</p> 
<p>4. Calibrated Printer</p>		<p>3/25</p>	<p>Prusa i3 Mk3 has been calibrated and set up. Is not ready for print</p> 

5. Updated Amanda		3/25	Updated Amanda (Nate's Mom) on current progress through text message. Sent her a picture of current prototype.
6. Created Pins for springs		3/26	Pins go inside spring and attach to forearm and cuff 


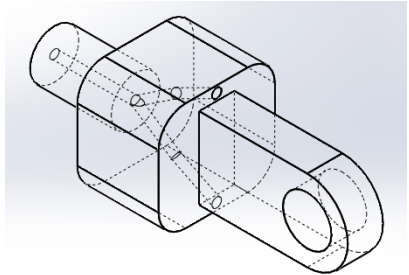
Team Member: Antoinette Goss

Action Item	Date Due	Date Completed	Result/Proof of Completion
Complete new modifications to the palm	3/20/2019	3/20/2019	CAD design will be finished by tonight for printing. However, here is a sketch of what the new palm will be like. 


Work with janelle for finger attachments	3/27/2019	3/27/2019	In progress- with the palm being adjusted, the finger adjustment will be fixed for later this week.
Complete Edits midpoint report	3/15/2019	3/15/2019	Edits for assigned section was completed by approximately 9:30 of Friday. In charge of editing sections 1,4,5, and 7.1.1 and 7.1.3. Janelle was consulted for these edits and I completed the final adjustments for the report and submitted. 
Test new attachment	3/13/2019	progress	Top attachment is too big. Is being rescaled and printed when new palm is done.

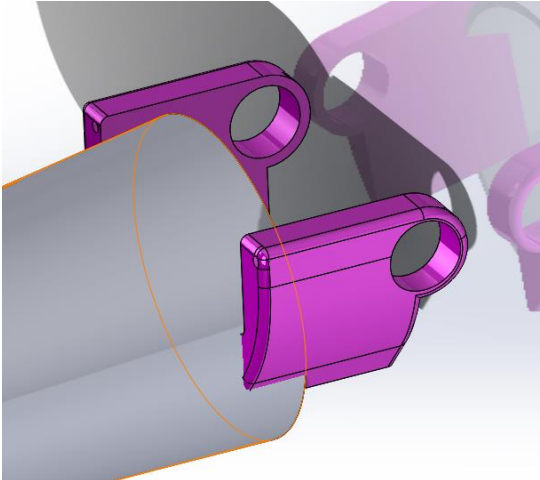

Team Member: Jannell Broderick

Action Item	Date Due	Date Completed	Result/Proof of Completion
Finish Edits (sections 2,3,6,EXECUTIVE SUMMARY, and 7.1.2) and add Sections to proposal (7.2.4)	Mar 15	Mar 15	The report was edited to have proper tense and the suggested edits were made for sections 2,3,6,EXECUTIVE SUMMARY, and 7.1.2. Toni was responsible for the other section edits. Toni was consulted with for these edits. Section 7.2.4 was added and discusses the changes made to the finger designs.

				
Modify rotating base of thumb (needs to allow the tendons to run through while and keeping it's range of motion)		Mar 27	Mar 15	<p>The base of the thumb needs to be able to rotate but tendons run through the base to bend the distal segments. To keep the tendons from being affected by the rotation the tendons were given special channels. See image.</p>  <p>This design may be changes to having straight channels and the palm will be altered to have slits for the tendons.</p>
Work with the team to ensure all subsystems connect properly		Mar 27	Incomplete	Each subsystem is going through a series of changes and improvements. So, connecting must wait.
Work with Toni to connect fingers to palm.		Mar 27	Incomplete	Once again the finger and palm designs have changed. So, this has been moved back.
Update website with new reports and presentations		Mar 27	Mar 27	<p>The updated report was added to the website!</p> <p>https://www.cefn.s.nau.edu/capstone/projects/ME/2018/18F12_ActiveProsthetic/</p>

Team Member: Allison Cutler

Action Item	Date Due	Date Completed	Result/Proof of Completion
Print forearm and write dimension changes on arm as necessary for servo motor incorporation	3/27/19	3/19/19	 <ul style="list-style-type: none">• Machine tolerance was underestimated in the part dimensions, so parts do not fit together• Design does not incorporate lid so that motors can be inserted• Front of forearm (the black piece) has a hole in it for the motors

<p>Work on brainstorming attachment to Palm (with or without Toni depending on Spring Break)</p>	<p>3/27/19</p>	<p>3/27/19</p>	<ul style="list-style-type: none"> • will most likely do pin and hole attachment like cuff • Alternative attachment is the rotation and locking mechanism like the forearm has • Questions to answer: should diameter of forearm at end change to match the palm, should palm increase diameter to match forearm, or should there be no diameter change?
<p>Make adjustments for spring attachment</p>	<p>3/27/19</p>	<p>3/19/19</p>	 <ul style="list-style-type: none"> • the ends have holes for the spring support
<p>Pick up ordered parts</p>	<p>3/27/19</p>	<p>3/23/19</p>	

The following are the Action Items for next week:

Team Member	Action Items	Date Due
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Felicity	<ol style="list-style-type: none"> 1. Develop Ankle attachment 2. Fit electronics 3. Add to code 	<ol style="list-style-type: none"> 1. 4/3/2019 2. 4/3/2019 3. 4/3/2019
Antoinette	<ol style="list-style-type: none"> 1. Complete Hardware review 2 report 2. Print part in time for report and testing 3. Complete new adjustments in CAD 4. Work with Janelle about Finger placement 5. Work with Allison for Forearm attachment 6. Help Allison with Lid Mechanism 	<ol style="list-style-type: none"> 1. 3/29/2019 2. 3/29/2019 3. 3/27/2019 4. 4/3/2019 5. 4/3/2019 6. 4/3/2019
Jannell	<ol style="list-style-type: none"> 1. Work with Toni to connect fingers to palm 2. Work with the team to ensure all subsystems connect properly 3. Ensure fingers are able to be scaled to individuals 4. Print Fingers and attach to other subsystems 	<ol style="list-style-type: none"> 1. 4/3/2019 2. 4/3/2019 3. 4/3/2019 4. 4/3/2019
Allison	<ol style="list-style-type: none"> 1. Work with Toni to get palm attachment 2. Complete forearm section of HR2 3. Set up UGRADS poster template 4. Implement dimension changes to forearm 5. Work with Toni and Felicity to get lid-mechanism working on forearm 	<ol style="list-style-type: none"> 1. 4/3/19 2. 3/29/19 3. 4/3/19 4. 4/3/19 5. 4/3/19