


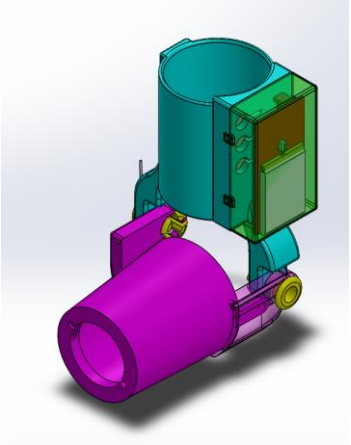
ACTION ITEMS

TEAM 12: Active Prosthetic Arm

Due Date:
Wednesday, April 3, 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. 

3. Reprint Cuff

3/27

3/27

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.

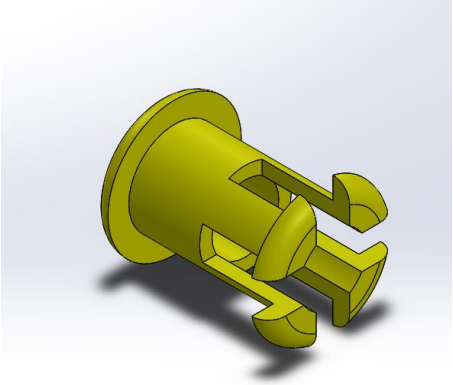


4. Calibrated Printer

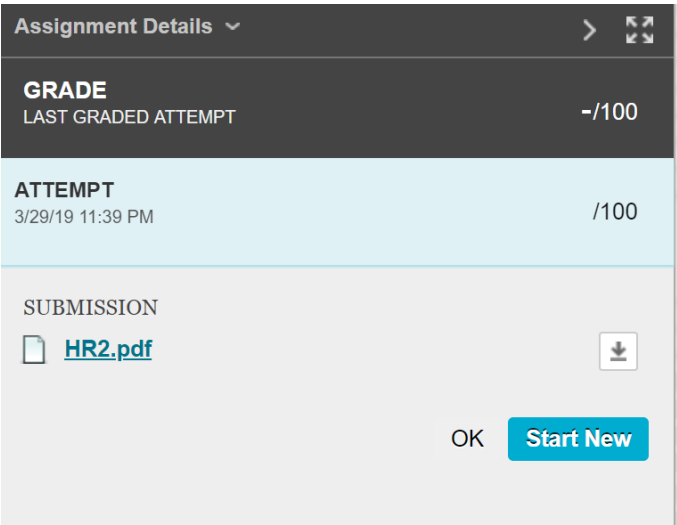
3/25

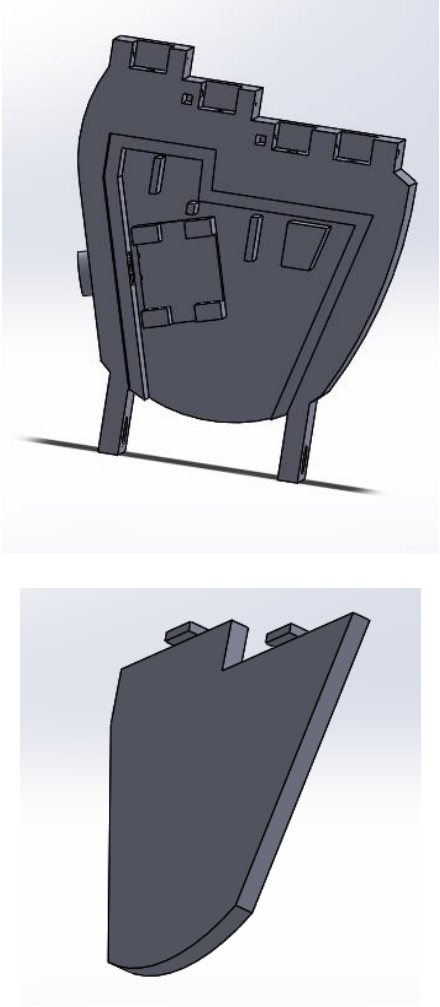
Prusa i3 Mk3 has been calibrated and set up. Is not ready for print

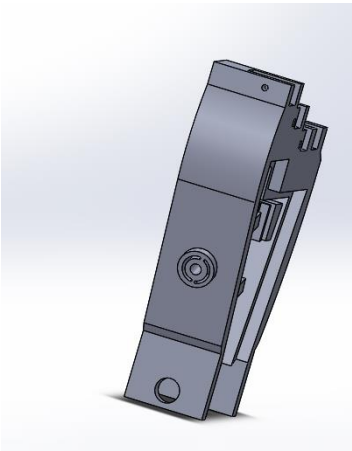


5. Updated Amanda		3/25	Updated Amanda (Nate's Mom) on current progress through text message. Sent her a picture of current prototype.
6. Created Pins for springs		3/26	Pins go inside spring and attach to forearm and cuff 

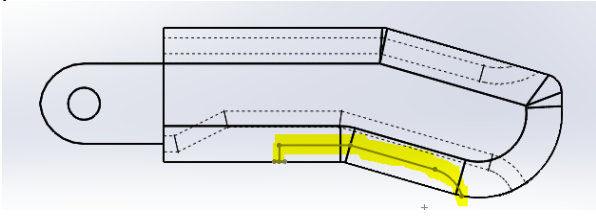
Team Member: Antoinette Goss

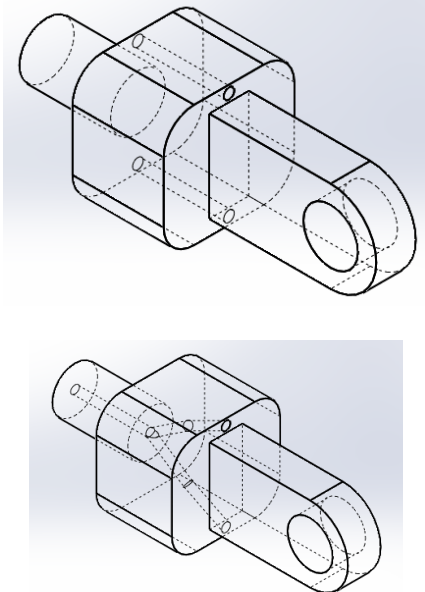

Action Item	Date Due	Date Completed	Result/Proof of Completion
Complete Hardware review 2 report	3/20/2019	3/20/2019	

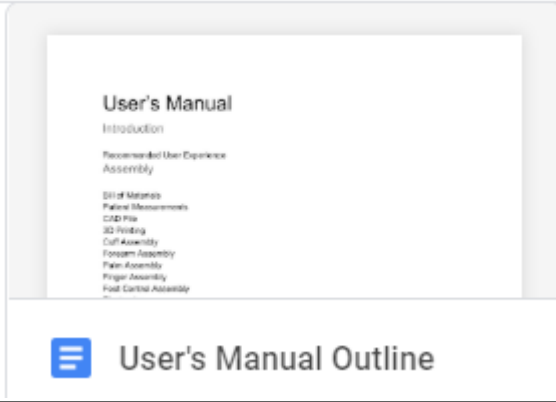
<p>Complete new attachments in CAD</p>	<p>3/29/2019</p>	<p>3/29/2019</p>	 <p>Cad has been completely redesigned to accommodate both the finger placement and Forearm attachment</p>
<p>Discuss palm attachment with Janelle</p>	<p>3/28/2019</p>	<p>3/28/2019</p>	<p>Jannell discussed what she would like for the finger attachment for the thumb, Cad was readjusted</p>

			
Discuss palm attachment with Allison	3/29/2019	3/29/2018	Palm now extends out to meet forearm attachment. Cad Design was readjusted

Team Member: Jannell Broderick

Action Item		Date Due	Date Completed	Result/Proof of Completion
New Finger Design		March 29	March 29	<p>New design was created with straight channels for the tendons and an internal channel for the pressure sensor.</p> 
New Thumb Rotator		March 29	March 29	<p>New channels were designed to allow the tendons to move through the thumb and not get tangled while the thumb rotates.</p>

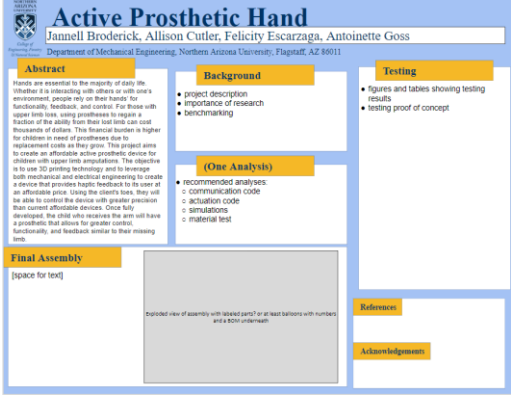
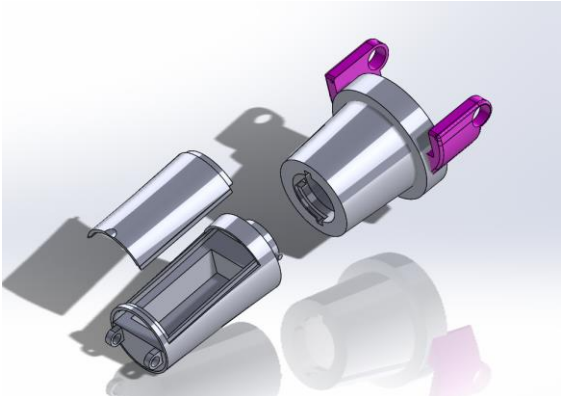
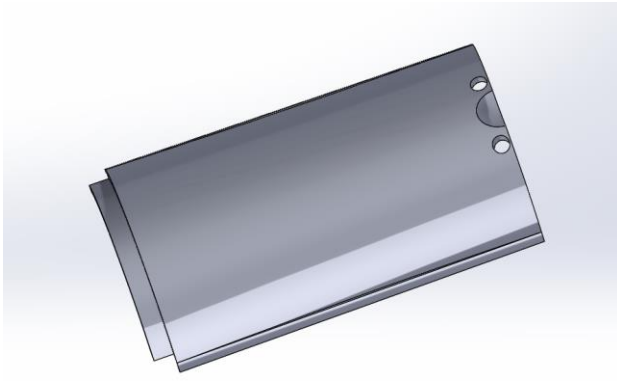
				
Hardware review on the fingers		March 29	March 29	<p>The updates to the finger designs were explained in the Hardware Review 2. All changes to the finger design are include and pictures of the CAD are shown.</p> 
Print Fingers and attach to other subsystems		April 3	March 31	<p>New design for fingers were sent to Felicity to be printed.</p> <p>(no picture. The print is with Felicity)</p>
Begin Outline of User Manual		March 31	March 31	<p>I began a doc that has the headings and subheadings that will be used to form the outline of the user manual.</p>

				
Work with the team to ensure all subsystems connect properly		April 3	Incomplete	Each subsystem is going through a series of changes and improvements. So, connecting must wait.
Work with Toni to connect fingers to palm.		April 3	Incomplete	Once again the finger and palm designs have changed. So, this has been moved back.

Team Member: Allison Cutler

Action Item	Date Due	Date Completed	Result/Proof of Completion
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<p>Work with Toni to get palm attachment</p>	<p>4/3/19</p>	<p>4/1/19</p>	 <ul style="list-style-type: none"> • the attachment is an extension of material that will be connected with a pin • The image is the palm-finger-forearm assembly to show how the material extends on the palm and the forearm for attachment
<p>Complete forearm section of HR2</p>	<p>3/29/19</p>	<p>3/28/19</p>	<p>Forearm</p> <p>The forearm was the responsibility of Allison. The forearm submitted for Hardware Review 1 was two flat halves thermoformed using a mold. The current state of the forearm is two circular halves that connect together with a sliding lock mechanism. The prototype front half is in Figure 4 and the back half is in Figure 5. This printed prototype was presented at the Hardware Review meeting and has been updated since. The prototype was missing attachments to the palm, missing a lid on the front half, and the width of the cuff attachments were too small. These were altered in SolidWorks.</p> <ul style="list-style-type: none"> •  • The image is the introduction to the forearm section of HR2, as proof of writing.

Set up UGRADS poster template	4/3/19	3/31/19	 <ul style="list-style-type: none"> • template contains headers and a brief description of what each section should contain
Implement dimension changes to forearm	4/3/19	3/31/19	 <ul style="list-style-type: none"> • this forearm has better tolerances and a working lid • The CAD was given to Felicity to print
Work with Toni and Felicity to get lid-mechanism working on forearm	4/3/19	3/31/19	 <p>Pins will be used to lock the lid in place. There are holes on the lid as well as holes on the forearm for the pin to go through</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. Help Allison with poster 2. Test Palm and Forearm Attachment to palm 3. Complete Operation Draft 4. Finalise palm and palm top 	<ol style="list-style-type: none"> 1. 4/5/2019 2. 4/7/2019 3. 4/5/2019 4. 4/8/2019
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 all Fingers and attach to other subsystems 5. User Manual Outline 	<ol style="list-style-type: none"> 1. 4/10/2019 2. 4/10/2019 3. 4/10/2019 4. 4/10/2019 5. 4/5/2019
Allison	<ol style="list-style-type: none"> 1. Finalize forearm dimensions 2. Add more detail to poster draft 3. Add more detail to operations draft 4. Design pins for attachments based upon printed prototype testing 	<ol style="list-style-type: none"> 1. 4/10/19 2. 4/5/19 3. 4/5/19 4. 4/10/19