

# ACTION ITEMS

## TEAM: 23 Clean Room

Due Date:

Monday, March 11th, 2019 5:00pm

The following are the Action Items from last week:

### Team Member: Katie Hoffman

Action Item	Date Due	Date Completed	Result/Proof of Completion
meet with Dr. Becker	March 6, 2019	March 6, 2019	Met with Dr. Becker in regards to the budget and project. Project scope changed as well as the budget. The frame for the room is to be manufactured and the rest will be done by Becker. Budget doesn't have a limit. Appendix A
Worked on the midpoint presentation	March 11, 2019	March 11, 2019	Created and worked on the midpoint presentation.
Took the polycarbonate to Palomino glass to be cut	March 6, 2019	March 5, 2019	Took the polycarbonate to Palomino glass with Daniel.
Started the Midpoint Report and shared it with the team.	March 11, 2019	March 7, 2019	Team has access to document.
Updated Abstract for Symposium	March 11, 2019	March 8, 2019	updated abstract for the Symposium. Appendix B.

### Team Member: Daniel Marquez

Action Item	Date Due	Date Completed	Result/Proof of Completion
Finished Drawing for Hood	Mar 11, 2019	Mar 8, 2019	Emailed Dr.Oman with the drawings
Waiting on the shipment for pressure sensor	Mar 11, 2019	Mar 8, 2019	Most of the components are in Flagstaff one more will arrive today.
Contacted Dr. Becker and Singne for cutting Poly	Mar 11, 2019	Mar 8 2019	Was in contact with them to make the purchase order for palomino glass company.

Finish Midpoint report and presentation	Mar 11, 2019	--	Started working in both the report and presentation need some more sections edited
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## Team Member: Hannah Reed

Action Item	Date Due	Date Completed	Result/Proof of Completion
Edited and proofread the midpoint report	Mar. 11, 2019	Mar. 9, 2019	Edits tracked in the word document shared with the rest of the team.
Epoxying the hood together.	Mar. 11, 2019	~~	Was not completed, because the place cutting the parts was not finished until monday at 4pm.
Assemble the hood.	Mar. 11, 2019	~~	Was not completed, because the place cutting the parts was not finished until monday at 4pm.
Work on the Midpoint Presentation	Mar. 11, 2019	Mar. 11, 2019	Worked together with the team to complete the presentation.

The following are the Action Items for next week:

Team Member	Action Items	Date Due
Katie Hoffman	<ol style="list-style-type: none"> <li>1. Work on Midpoint Report ( approx. 6 hours)</li> <li>2. Get new quotes from Mayorga's on Steel frame for room (approx. 1 hour)</li> <li>3. Work on Hood (approx. 3 hours)</li> <li>4. Get new quote from Mountain Shine on powder coating frame (approx. 1 hour)</li> <li>5. Complete peer evaluation 2 (1hr)</li> </ol>	<ol style="list-style-type: none"> <li>1. March 14, 2019</li> <li>2. March 12, 2019</li> <li>3. March 18, 2019</li> <li>4. March 12, 2019</li> <li>5. March 18, 2019</li> </ol>
Daniel Marquez	<ol style="list-style-type: none"> <li>1. Finish Presentation (2hrs)</li> <li>2. Glue Polycarbonate (4 Hr)</li> <li>3. Contact Workshop for work order (2 hrs)</li> <li>4. Build pressure sensor (6hrs)</li> <li>5. Finish Midpoint Report (5 hrs)</li> </ol>	<ol style="list-style-type: none"> <li>1. March. 13, 2019</li> <li>2. March. 15, 2019</li> <li>3. March. 13, 2019</li> <li>4. March. 18, 2019</li> <li>5. March. 15, 2019</li> </ol>
Hannah Reed	<ol style="list-style-type: none"> <li>1. Proofreading and editing Midpoint report for turn in. (4hrs)</li> <li>2. Work on glueing the polycarbonate together. (1hr)</li> <li>3. Finish putting the parts of the hood together. (1hr)</li> <li>4. Complete peer evaluation 2 (1hr)</li> </ol>	<ol style="list-style-type: none"> <li>1. Mar. 15, 2019</li> <li>2. Mar. 14, 2019</li> <li>3. Mar. 14, 2019</li> <li>4. Mar. 17, 2019</li> </ol>

# Appendix

## Appendix A

**41**  **Timothy A. Becker**  
to me ▾ Wed, Mar 6, 10:00 AM (5 days ago) ☆ ↶ ⋮

Yeah, I should be in the lab around 2:15-2:30p today for a bit. Lets shoot for then.

DrB

⋮

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**+**  **Katie Hoffman** <klh562@nau.edu>  
to Timothy ▾ Wed, Mar 6, 12:22 PM (5 days ago) ☆ ↶ ⋮

See you then!

-katie hoffman

Sent from my iPhone

⋮

## Appendix B

**Please note:** This will be provided to anyone who may review your project and will be included in the online directory.

The project proposed, by Aneuvus Technology, Inc, is to design and build a portable clean hood and fully design a portable clean room and manufacture the frame. The project is overseen by the client/faculty advisor Dr. Timothy Becker. The client desires a 6'x8'x7' room and a 2'x4'x3.5' hood to perform microcatheter testing. The primary requirements given by the client are that both units maintain a positive pressure, be portable, and produces a foreign particle clean environment. The hood will be constructed of three parts: an aluminum frame, a polycarbonate viewing case, and a Fan Filter Unit (FFU). The aluminum frame will support the total weight of the FFU and will fit over the polycarbonate. A rubber seal will prevent pressure loss between the three components. The polycarbonate will have a hinged door allowing access to the client's products being tested. The room has a design of four main parts: a powder coated steel framing, plastic lining, and two FFUs. The frame will be manufactured to breakdown into sections and powder coated to ensure cleanliness. Attached will be a removable clear vinyl, used to maintain positive pressure. Analytical calculations performed show the both units will maintain positive pressure with two FFUs for the room and one for the hood on the lowest speed setting. A structural analysis showed that neither unit will fail under the load of the FFUs. The fan filter analysis showed the maximum cleanliness classification that both units can sustain, along with the life of the filters.

### Poster Presentation

If available, upload an image of your poster presentation for scorers to review prior to the event. This can be uploaded after you have submitted your application, up until the day of the event.

## Appendix C