

ACTION ITEMS

TEAM: 23 Clean Room

Due Date:

Monday, March 4th, 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
Attempted to meet with Dr. Becker	Feb. 28, 2019	---	Attempted to meet with Dr. Becker twice, Tuesday and Wednesday to discuss budget complications but he was not in his lab. Emailed him as well and he said he got sick. Appendix A
Continued work and finished Individual Tech analysis	March 1, 2019	March 1, 2019	Turned in Tech Analysis on Friday.
Met with Dr. Acker, Dr. Mizumdar, and Mr. Willey on advice for ANSYS	Feb. 28, 2019	Feb. 28, 2019	I went to his office hours to get help on ANSYS Complications.
Updated BOM	March 4, 2019	Feb. 28, 2019	Updated BOM. Appendix B.
Registered for Symposium	March 4, 2019	March 4, 2019	Registered for the Symposium. Appendix C.

Team Member: Daniel Marquez

Action Item	Date Due	Date Completed	Result/Proof of Completion
Finished Technical Analysis	Mar 4, 2019	Mar 1, 2019	Turned in Technical Analysis
Researched different Arduino set ups	Mar 4, 2019	Feb 27, 2019	Looked online for different specifications of Arduino
Ordered Arduino board and pressure sensor	Mar 4, 2019	Feb 28, 2019	Ordered parts for pressure sensor for experimental validation of positive air pressure appendix E

Couldn't make contact with Becker	Mar 4, 2019	Feb 28, 2019	Due to sickness Dr. Becker could no meet with the team
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Team Member: Hannah Reed

Action Item	Date Due	Date Completed	Result/Proof of Completion
Finished technical analysis.	Mar. 4, 2019	Mar. 1, 2019	Turned in the technical analysis.
Epoxying the hood together.	Mar. 4, 2019	~~	Was not completed, because client wanted to verify some components before it was assembled.
Purchase parts for the hood.	Mar. 4, 2019	Mar. 4 2019	Components purchased and ready for use. See appendix D.
Assemble the hood.	Mar. 4, 2019	~~	Was not completed because of needing to meet with client to verify components before assembly.
Edited the Report executive summary and section 4.	Mar. 4, 2019	Mar. 4, 2019	Edits tracked in the word document shared with the rest of the team.

The following are the Action Items for next week:

Team Member	Action Items	Date Due
Katie Hoffman	<ol style="list-style-type: none"> 1. Work on Midpoint Report (approx. 6 hours) 2. Meet with Dr. Becker to discuss recent research on the portable room and budget (approx. 1 hour) 3. Work on Hood (approx. 3 hours) 	<ol style="list-style-type: none"> 1. March 11, 2019 2. March 11, 2019 3. March 11, 2019
Daniel Marquez	<ol style="list-style-type: none"> 1. Meet with Becker on updated estimates (2hrs) 2. Cut polycarbonate through Palomino Glass Company (2 Hr) 3. Finish Drawings for Work Order on solidworks (2 hrs) 4. Build pressure sensor (6hrs) 5. Start and Finish Midpoint Report (5 hrs) 	<ol style="list-style-type: none"> 1. March. 11, 2019 2. March. 11, 2019 3. March. 11, 2019 4. March. 11, 2019 5. March. 11, 2019
Hannah Reed	<ol style="list-style-type: none"> 1. Proofreading and editing Midpoint report for turn in. (6hrs) 2. Work on glueing the hood together. (1hr) 3. Finish putting the parts of the hood together. (1hr) 4. Work on Midpoint Presentation. (2hrs) 	<ol style="list-style-type: none"> 1. Mar. 8, 2019 2. Mar. 11, 2019 3. Mar. 11, 2019 4. Mar. 10, 2019

Appendix

Appendix A



Daniel Marquez

Tue, Feb 26, 9:19 AM (6 days ago)

Hi, Katie just wanted to let you know of showing up to your lab hours this week

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Katie Hoffman

Wed, Feb 27, 12:36 PM (5 days ago)

Good afternoon, Sorry to hear you are not feeling well. I wanted to meet with you in regards to the budget and some concerns I had.



Timothy A. Becker

Wed, Feb 27, 2:02 PM (5 days ago) ☆

to me, Daniel, Hannah ▾

Got some kind of flu bug. Not going to make it in today...

DrB

Tim Becker, PhD
Associate Professor of Practice
Co-Director, Bioreengineering PHD Program

Appendix B

Portable Hood									
Part #	Part Name	Qty	Description	Functions	Material	Dimensions	Cost	Total Cost	Unit
1	Aluminum Frame	6	Hood Frame - DONATED -98C	Supports Fan	Aluminum	1" X 1/8" thick - 5 - 6' l	\$-	\$-	ext
2	Polycarbonate	1	For 3 sheets Material For Hood	Creates covering for hood	Polycarbonate	48"x48"x1/4"	\$530.00	\$530.00	lea
3	Cut Polycarbonate	1	Cut the polycarbonate	is the inner shell of the hood	Polycarbonate	48"x48"x1/4"	\$30.00	\$30.00	
4	Epoxy	3	seals the polycarbonate	creates a seal for no air to escape	Plastic	n/a	\$5.97	\$17.91	htt
5	Rubber lining	2	cushions FFU to frame	to prevent air leakage between frame and FFU	Rubber	1 3/32" X 10'	\$8.35	\$16.70	htt
6	Magnets	1	Holds door	Keeps door open for ease of adjustments within hood	Neodymium	1/2 diam.	\$3.98	\$3.98	htt
7	Machine Screws	1	tightens hinges	secures the hinges	Zinc plated	32x1/2	\$0.97	\$0.97	wal
8	Hinges	1	hinges for hood	allows the hood door to open	Zinc plated	2-1/2'	\$2.44	\$2.44	Zin
							Total Cost Estimate:	\$572.00	
Portable Room									
Part #	Part Name	Qty	Description	Functions	Material	Dimensions	Cost	Total Cost	Unit
8	Steel Frame	110'	Steel - 110' - 2"x2"x1/8"	Framing for the portable room	steel	2"x2"x1/8"	\$450.30	\$450.30	Ma
9	White Powder Coat	1	Powder coat the steel frame	Protect the steel and to reduce particals released by the steel			\$700.00	\$700.00	Mo
10	Plastic Sheeting Roll	1	Plastic to Wrap Room	Creates covering for room	Plastic	54"x60'	\$313.73	\$313.73	Car
11	DuraGrip Brand Adhesive Back	4	Adhesion for plastic Wrap	Holds plastic wrap in place	Velcro	1"x.75	\$31.25	\$125.00	htt
12	Steel Joints	16	Joints to support Frame	Supports frame	Steel	n/a	\$8.50	\$136.00	CQ
13	Shear Pins	4	Holds legs in place	Help adjusting size of room	steel	2.75"x6"	\$1.76	\$7.04	Snc
14	Heavy Duty Swivel Caster Wh	4	600lb capacity swivel caster wheels - DONATED	Allows for the portable room to be stationary and move	5 x 1-1/4 in nylon poly	Wheels - 5 x 1-1/4, Fran	\$-	\$-	DO
							Total Cost Estimate:	\$1,732.07	
							Overall Total Estimate:	\$2,304.07	
							Total Budget:	\$2,000.00	
							Remaining Budget:	(\$304.07)	
	Not Purchased								

Appendix C

Thank you, Katie, for your registration to present at NAU's 2019 Undergraduate Symposium. You will receive an email confirming the receipt of your registration for your records.

[See My Submissions](#)



Appendix D



Appendix E

3:45

When let you know when your order is on the way.



US 0.96" I2C Serial 128X64 LED OLED LCD Display Module for Arduino White



Item price: \$5.95
Est. delivery to your address: Fri, Mar 08
Item ID: 382557870211
Seller: [miniduino \(11891\)](#)
[View order details](#) →

ebay MONEY BACK GUARANTEE

5Pcs BMP280 3.3V Pressure Sensor Module High Precision Atmospheric US



Item price: \$8.49
Guaranteed by: Thu, Mar 07
Item ID: 142267570254
Seller: [wfyb \(166498\)](#)
[View order details](#) →

ebay MONEY BACK GUARANTEE

Arduino Kit Keypad Leds Resistors jumper wires breadboard button



Item price: \$16.50
Est. delivery to your address: Wed, Mar 06 - Fri, Mar 08
Item ID: 323687739571
Seller: [bjcircuits \(84\)](#)
[View order details](#) →

ebay MONEY BACK GUARANTEE

MINI USB Nano V3.0 ATmega328P CH340G 5V 16M Micro-controller board Arduino



Item price: \$5.95
Est. delivery to your address: Mon, Mar 11
Item ID: 222543127037
Seller: [eg-action \(33530\)](#)
[View order details](#) →

ebay MONEY BACK GUARANTEE

Your order will ship to:
PO Box 695
Flagstaff, AZ 86002-0695
United States

Order total:	
Price	\$36.89
Shipping	Free
Total charged to ProRed	\$36.89



To re-activate your number