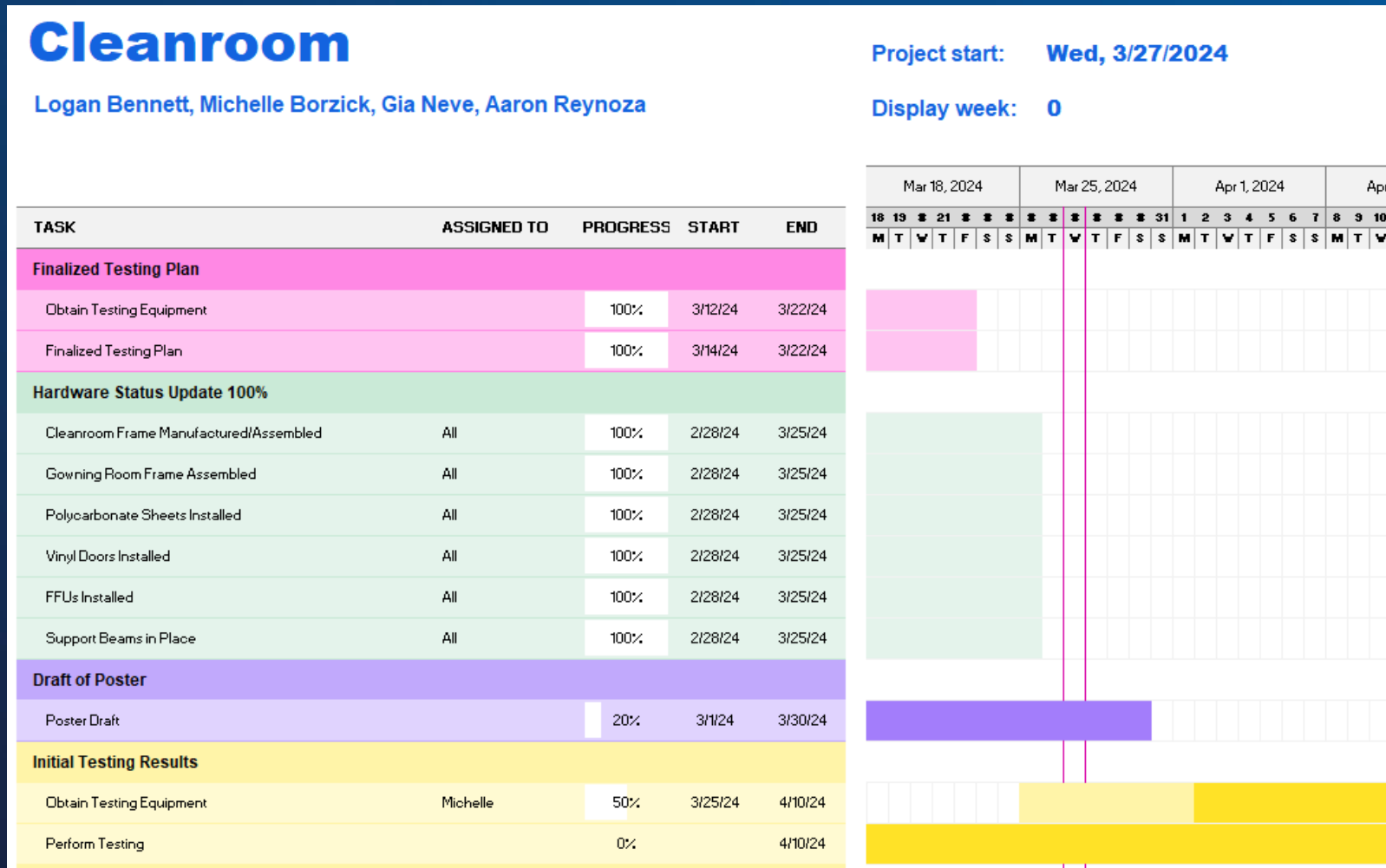


Modular Sterile Cleanroom 100% Hardware Status Update

Logan Bennett
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Updated Gantt Chart



Status: On Track

Potential Roadblock:
 Damaged FFU needs replaced

Figure 1: Updated Gantt Chart March 2024

Design Efforts

CAD Updates: Addition of Gowning Room, Doors, and Cleanroom Support Beams



Figure 2: Cleanroom CAD at 67% Update

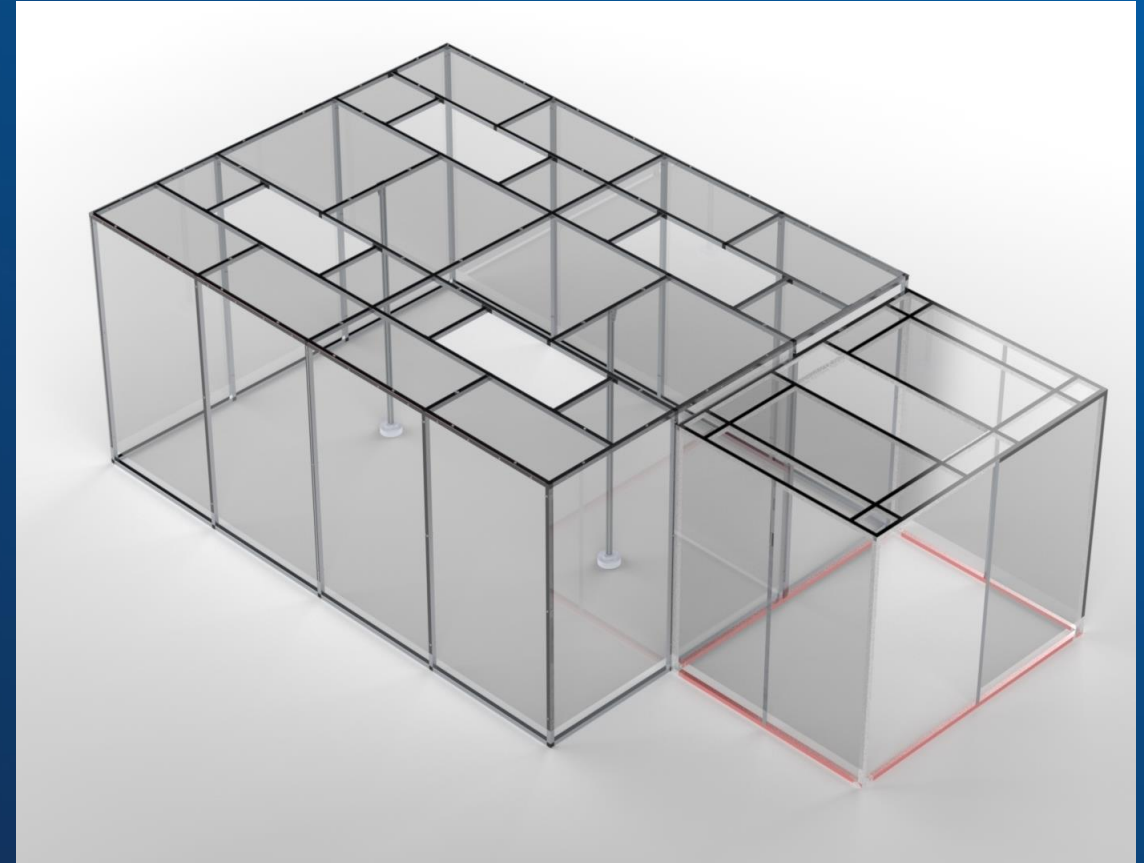


Figure 3: Updated Cleanroom and Gowning Room CAD

Design Efforts

Design Updates:

- Support Beams were placed to minimize deflection of the connectors under the FFUs



Figures 4 & 5: Support Beams

Purchasing Plan






18	80/20 T-Slot Extrusions	4	2x 11.5ft & 2x 6ft		Aluminum	Ryans Garage	N/A	N/A	N/A	Donated	Yes
19	Aluminum Square tubing	2	2x 8ft		Aluminum	Machine shop	N/A	N/A	N/A	\$108.71	Yes
20	Bolts	85	40 x 2.5", 20 x 1" , 25 2"		steel	Home Depot	812210 865658 2420	N/A	N/A	\$30.00	Yes
21	Nuts	55	1/4" x 20		steel	Home Depot	801826	N/A	N/A	\$10.00	Yes
22	Support Beam Base	2	2 tops, 2 bottoms		PVC pipe couplings	Home Co	4689864	N/A	N/A	\$80.00	Yes
Total Cost										\$10,543.49	
										Percentage Purchased:	100.00%

Figure 6: Purchasing BOM

Manufacturing Plan




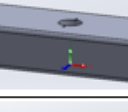

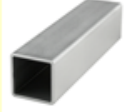


B.10	22 - Variant 2	2	Top: 2 holes at 11		Aluminum	Team	0.4	2/10/2024	R&D Machine Shop	0.4	2	Yes
F	16" X 48" X 96" Clear Polycarbonate Sheets	31	Hole placement, Bottom wall removal		Polycarbonate	Team	30	2/18/2024	Dr. Becker's Lab	30	31	Yes
G	Steel Beams	33	Hole placement TBD		Powder Coated Steel	Team	9	2/18/2024	Dr. Becker's Lab	9	33	Yes
H	Drill Template Beam	4	Beams to hold hole guides		Wood	Team	0.5	2/9/2024	Dr. Becker's Lab	0.5	4	Yes
I	Hole Guides Single	2	3D printed holes guides for drill press		3D Printed Filament	Team	12	2/9/2024	Michelle's House	12	2	Yes
J	Hole Guides Double	2	3D printed holes guides for drill press		3D Printed Filament	Team	12	2/9/2024	Michelle's House	12	2	Yes
K	Cut 1"x1" AL beams to size	2	Cutiing to size		Aluminum	Gia&Logan	0.5	3/15/2024	Machine Shop	0.5	2	Yes
L	Cut 80/20 Extrusions	2	Cutiing to 87"		Aluminum	Gia&Logan	0.5	3/23/2024	Machine Shop	0.5	2	Yes
	Total Qty:	121					91.1					
									Percentage Manufactured:	100.0%		

Figure 7: Manufacturing BOM

Demonstration



Figure 5: Completed Cleanroom and Gowning Room



Figure 6: Completed Cleanroom and Gowning Room

Demonstration



THANK YOU!