



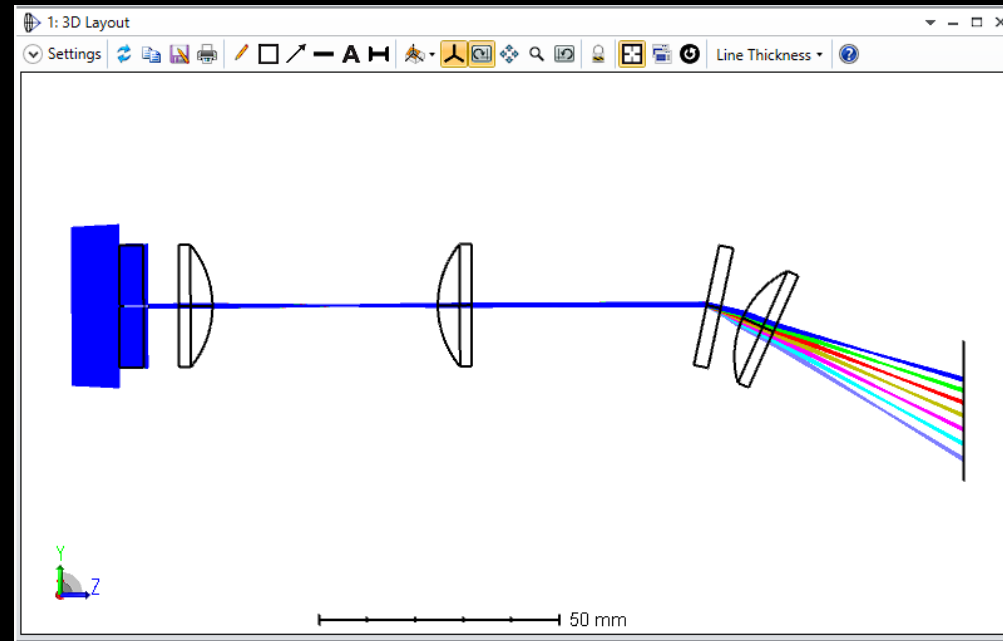
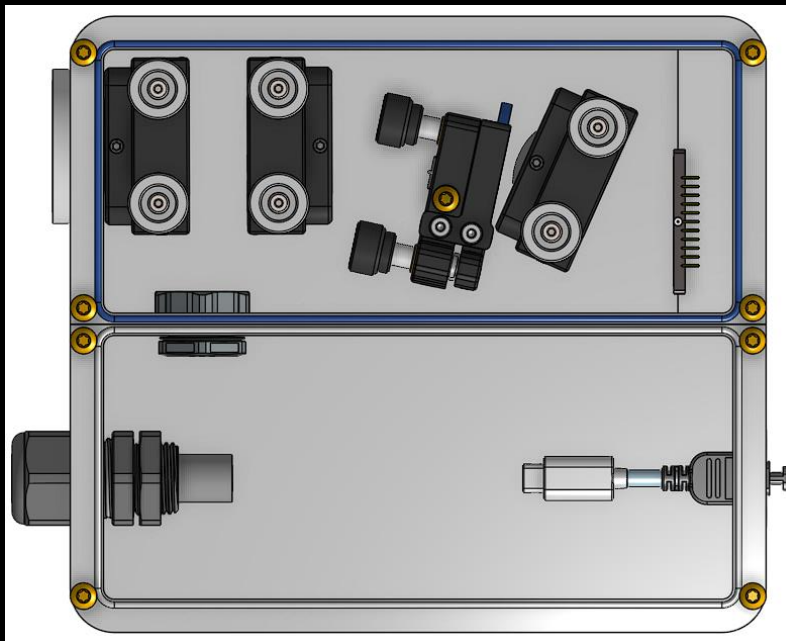
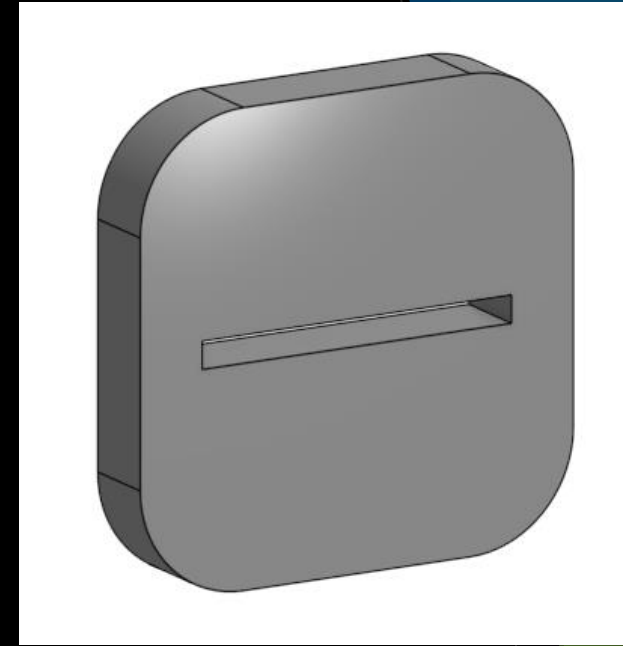
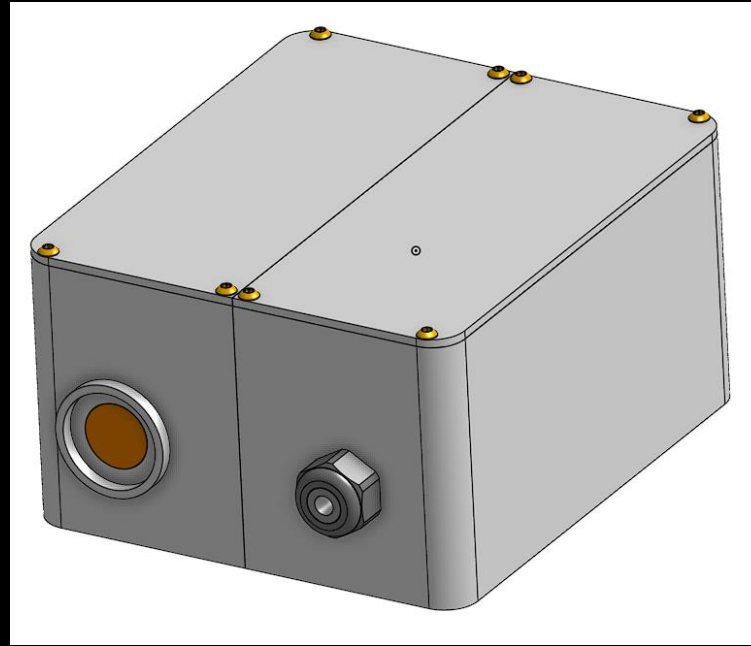
Spectral Forest

Hardware Status Update – 33% build

ME 486C Section 01

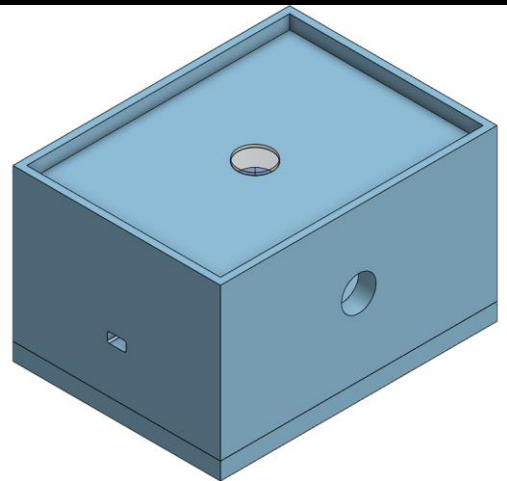
Team: Tyler Lerew, Torrey King, & Derrick Doan

Design Effort

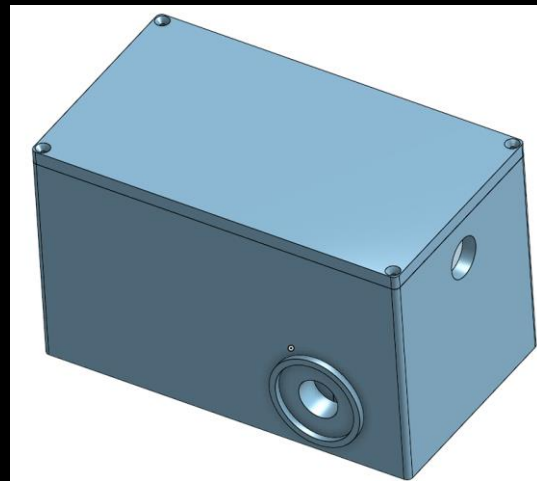


Iterations

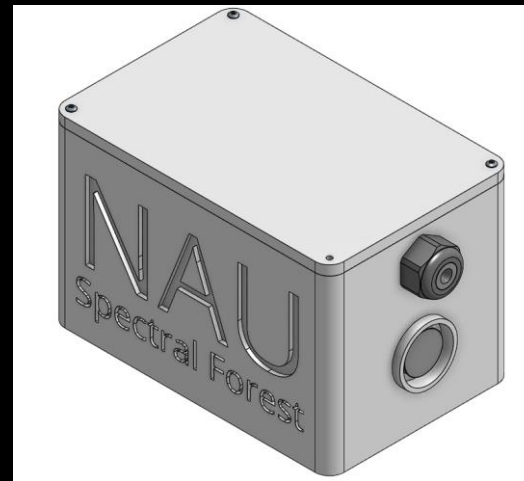
1st & 2nd



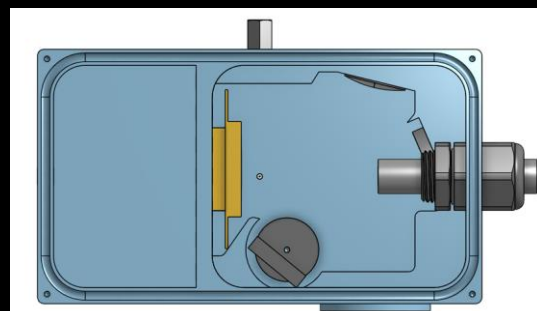
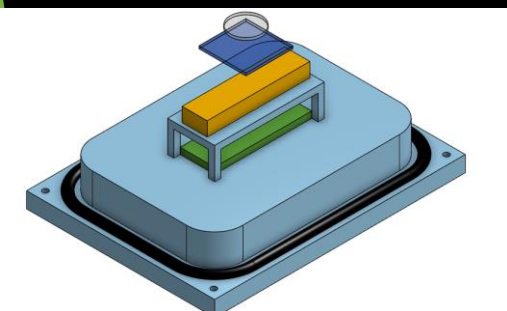
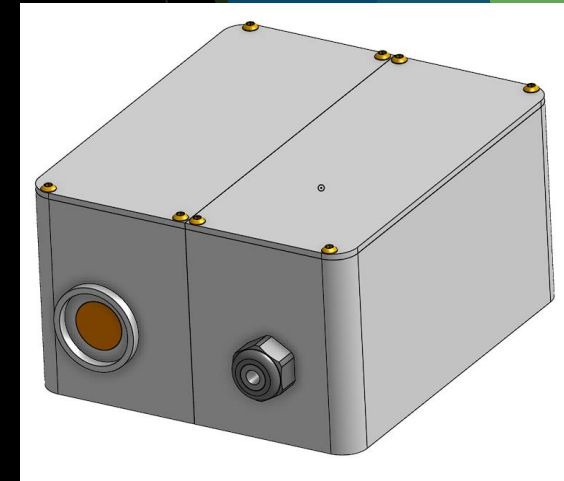
3rd



4th



5th



Purchasing Plan

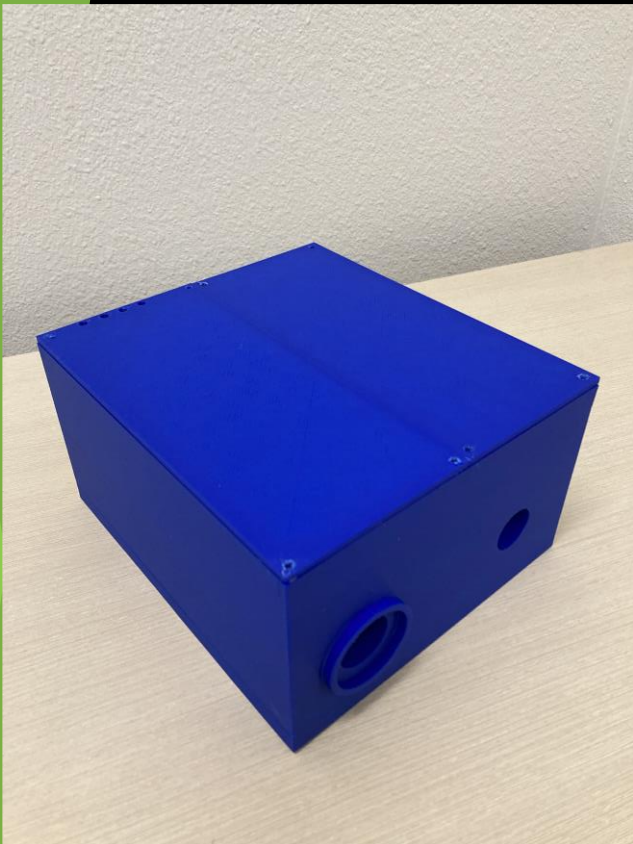
- ▶ Everything will be sent off to be purchased this week
- ▶ BOM is finalized excluding calibration materials
- ▶ We have 22% of our items purchased and on hand, 78% yet to be purchased: printed housing, screws, screw inserts, and drone nut
- ▶ Switching tabs to view BOM for your viewing pleasure

Manufacturing Plan

- ▶ We will be purchasing a Bambu Lab X1C 3D printer to print all our prototypes, and the final design ourselves
- ▶ We have not manufactured anything yet, once the printer is purchased and arrives, we will begin printing more prototypes to do testing and modifying our mounts to decrease weight

Bill of Materials: Manufactured Items								
Item #	Item	Item Description	Vendor & Part #	Quantity	Cost \$	Cost Per unit \$	Purchase or Manufacture	Weight [oz]
1	Final 3D printed device	Will house all internal components	In house	1	N/A	N/A	Manufacture	
2	Prototype device #2	Will be used for testing purposes	In house	1	N/A	N/A	Manufacture	
3	Prototype device #3	Will be used for testing purposes	In house	1	N/A	N/A	Manufacture	
4	Prototype device #4	Will be used for testing purposes	In house	1	N/A	N/A	Manufacture	
5	Prototype device #5	Will be used for testing purposes	In house	1	N/A	N/A	Manufacture	

Demo: Pictures of 3D Printed Housing



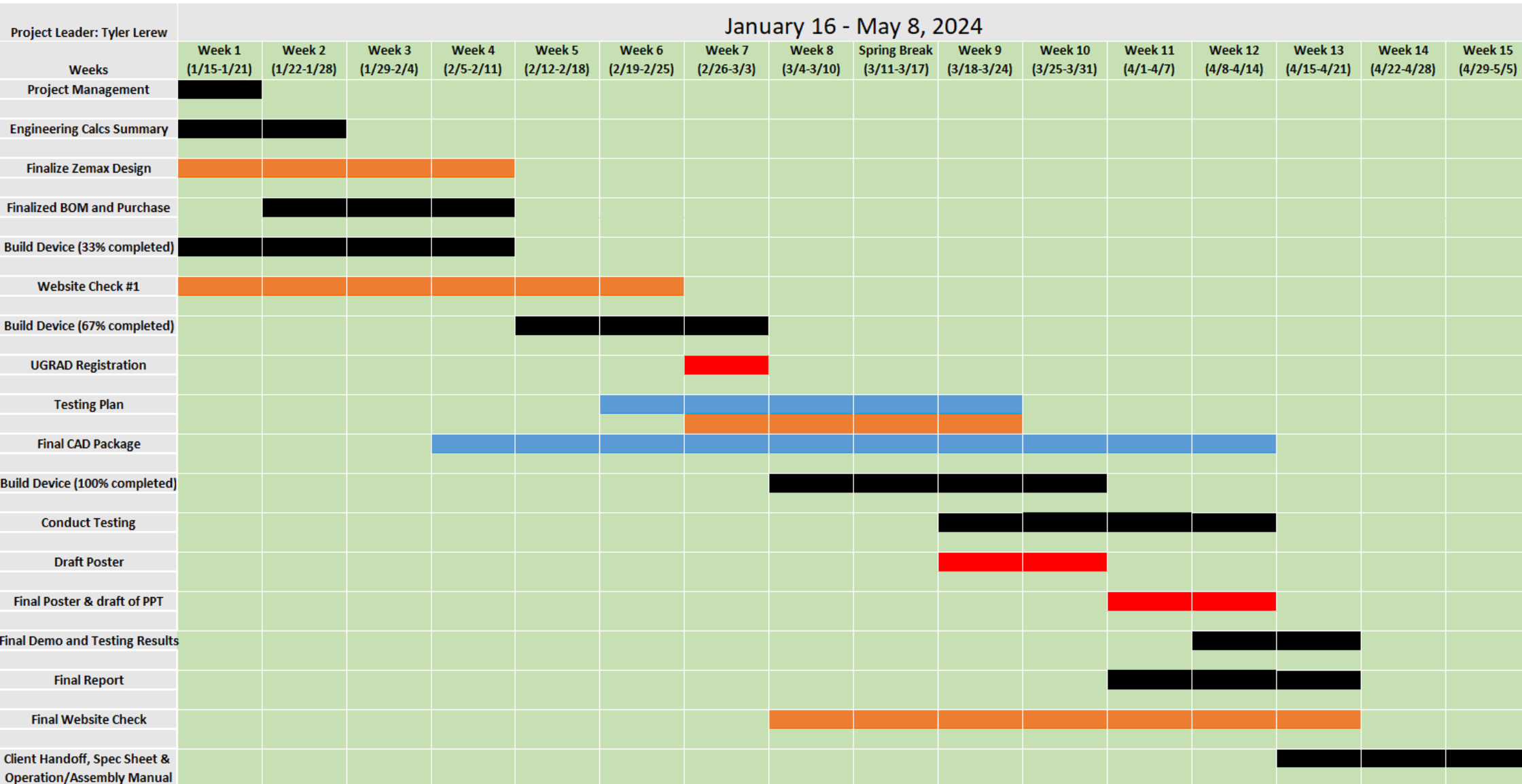
Demo: Pictures of Misc. Hardware



Gantt Chart

- ▶ On or ahead of schedule depending on the swiftness of the delivery of our items
- ▶ Only roadblock is the weight so we will be drilling holes in our mounts to decrease weight

Spectral Forest Gantt Chart



Derrick Doan	Yellow
Torrey King	Orange
Tyler Lerew	Blue
Everyone	Black
All UGRAD	Red



Thank you!

Questions?