

HOZHONI ART TEAM MIDPOINT REVIEW PRESENTATION

Logan Bacher
Adam Barad
Brittnee Barrett
Maggie Collins
Jeannette Nelson

PROJECT REVIEW



- Create an assistive device for individuals with disabilities to aid in the creation of art (Hozhoni Art Program)
 - Easel-based drawing table
- Primary Stakeholders:
 - Hozhoni Art Foundation
 - Workers and Clients
- Funding Provided by:
 - W.L. Gore and Associates (Flagstaff)



UPDATES - LEGS

Table Legs

Folding, height adjustable legs: In Delivery

Updates from Initial

- Initial legs were not adequate and had to be returned
 - Folding mechanism too stiff
 - Parts were rusted
 - Too many potential pinch points
 - No method for height adjustment



Brittnee Barrett

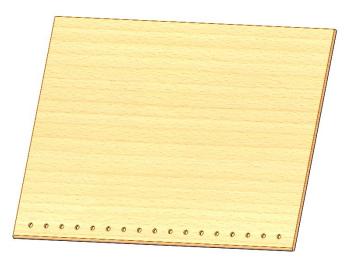


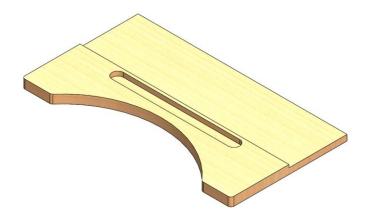
3

UPDATES - EASEL BASE ASSEMBLY

Easel Base Progress:

- Wood Cutting for Base: Complete
- Wood Cutting for Easel Back: Complete
- Paint-holder Divot: Complete
- Stain and Polish of Wood: Complete
- Canvas Support Bar: In progress









UPDATES - BRACKET/SAWTOOTH SYSTEM



- Design: Completed
- Metal Order: Completed
- Metal Delivery: In-Progress
- Machining Code: Completed
- Bracket-support system: In-Progress

Support Bar:

Design and Build: Completed (modifications not-shown)







MANUFACTURING - PLANS



- Sawtooth System (Margaret/Logan)
 - Sawtooth
 - Brackets
 - Additional Support on Easel Backing (if necessary)
- Easel Support Bar (Jeannette/Brittnee/Adam)
 - Brackets/Support
- Additional Parts/Extras (Team)
 - Saddle bag for supplies
 - Additional ergonomics
 - Elbow pads
 - Cushions

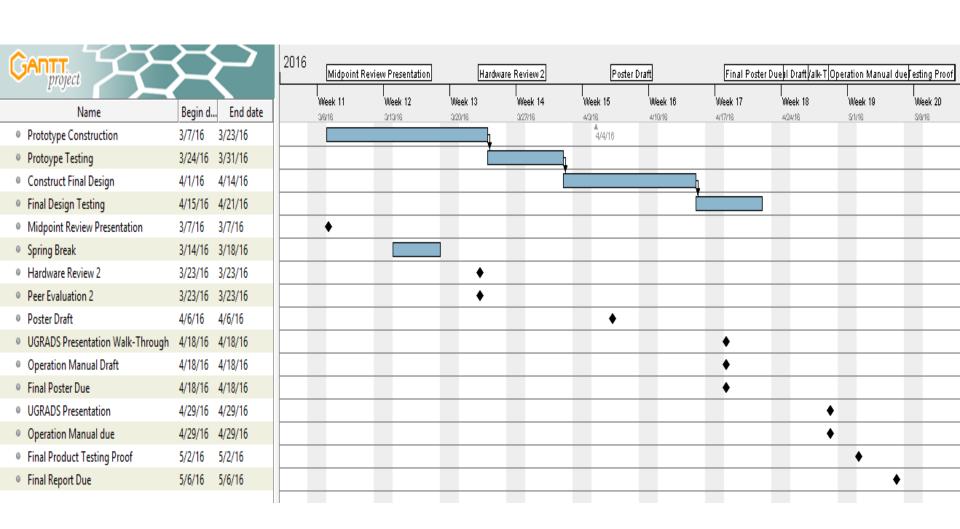


TESTING

- Testing to be accomplished after Hardware Review 2
 - If redesigns required:
 - Remaining budget and time will be sufficient to schedule
- Testing procedures:
 - Measurement: Everything within tolerance and specification
 - Size
 - Weight
 - Motion Tests: Fluidity of setup/takedown/position change
 - Repetition Tests: Reliability and Durability
 - Carry Tests: Ability to be moved/stored
 - Spill Tests: Ability to withstand art supply contact
 - Template Tests: Ability to hold necessary canvases
 - Push Tests: Reliability and durability



SPRING SEMESTER SCHEDULE



BILL OF MATERIALS

Item No.	Description	Material	Quantity	Price (Total)	Purchased From
1	Folding Legs	Steel	1	\$124.00	Amazon
2	Table Top	Wood Board	1	\$44.79	1.5" thick, from Home Depot
3	Saw tooth Support	Aluminum	-	\$75.60	Metals Depot
4	Brackets/Bolts/Screws	-	-	\$15.90	Home Depot
5	Rod Support	Aluminum	1	-	Scrap from mechanic shop
6	Paint Brushes	-	4	\$26.68	Home Depot
7	Sandpaper	-	2	\$6.94	Home Depot
8	Stain	-	1	\$7.98	Home Depot

• Total Budget: **\$1500**

• Prototype Cost: **\$301.89**

• Remaining Budget: \$1198.11



THANK YOU ANY QUESTIONS?