

HOZHONI ART TEAM PROGRESS REPORT PRESENTATION

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PROJECT REVIEW





- Project Objectives:
 - 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)

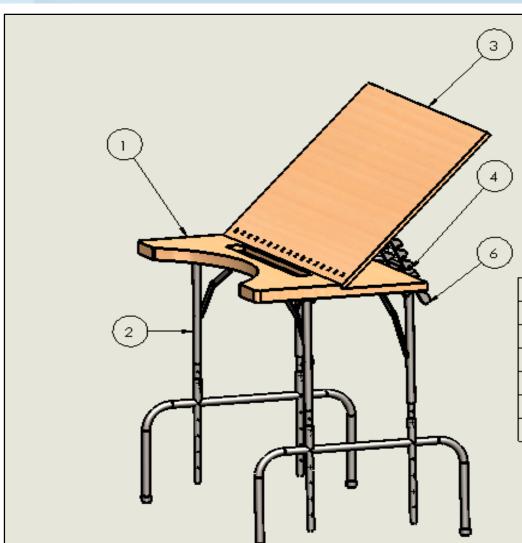
CHANGES FROM START





- Original Project:
 - Build an assistive device to help Hozhoni Clients work at the Norton Recycling Center
 - Change due to difficulties with communication and ambiguous project requirements
- What stayed the same:
 - Working with the Hozhoni Foundation
 - Creation of an Assistive Device
- Primary Changes:
 - Contact at the Hozhoni Foundation
 - Working with the art program

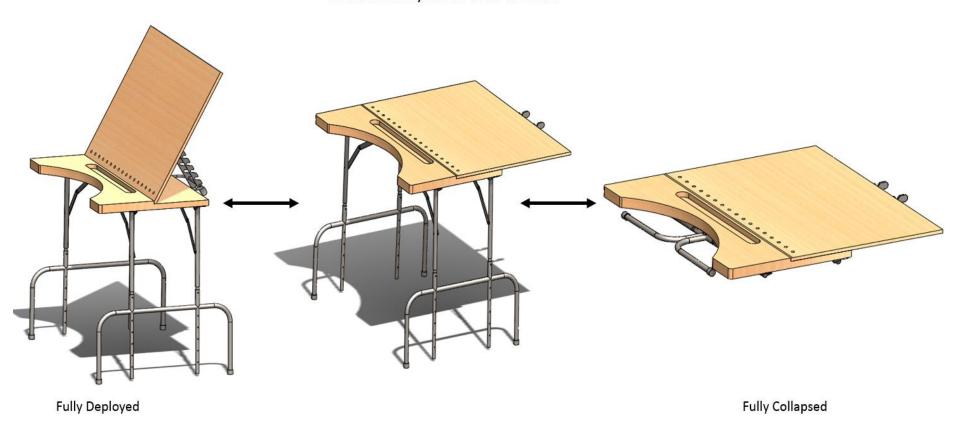
ANTICIPATED DESIGN



ITEM NO.	PART NUMBER	QTY.
1	Tabletop	1
2	Leg Assembly	2
3	Eisel Backboard	1
4	MetalRod	1
5 Leg-Bracket		2
6	Saw Rod	2

PROCESS DIAGRAM - COLLAPSIBILITY AND STORAGE

COLLAPSING/STORAGE PROCESS



ACCOMPLISHMENTS SINCE LAST UPDATE





Last Report

- Redefining the Project Descriptions/Objectives
- Initial Design Research
- List of Potential Designs

Winter Break

- Design Decision with Decision Matrix
- Design Modification
- 3D Modeling
- Manufacturing Plac

MANUFACTURING - PARTS



- Most Parts will be ordered from Amazon or bought in store
 - Wood table top
 - Lawn Chair Bar
 - Hollow Steel Tubing for Legs
- Use Scrap Aluminum from machine shop



Manufacturing - Roles

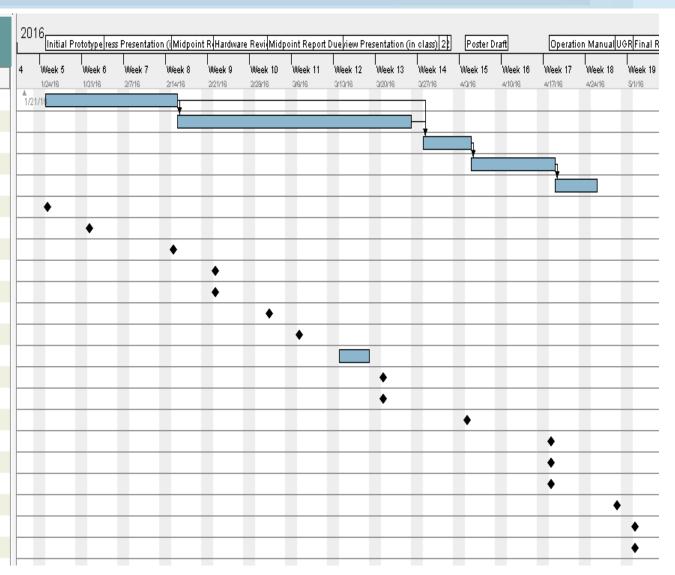


- Maggie and Adam have worked in the machine shop
 - Make the saw tooth arm
- Jeannette and Logan have wood cutting tools and experience
 - Table top and easel backing
- All have experience in building various items from previous projects



SPRING SEMESTER SCHEDULE

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Project	\prec	
Name	Begin d.	End date
 Purchase Materials 	1/25/16	2/15/16
 Construct Beta Prototype 	2/16/16	3/25/16
 Protoype Testing at Hozhoni 	3/28/16	4/4/16
 Construct Final Design 	4/5/16	4/18/16
 Test Final Design 	4/19/16	4/25/16
 Initial Prototype 	1/25/16	1/25/16
 Progress Presentation (in class 	s) 2/1/16	2/1/16
 Midpoint Report Draft 	2/15/16	2/15/16
Hardware Review 1	2/22/16	2/22/16
Peer Evaluation 1	2/22/16	2/22/16
 Midpoint Report Due 	3/2/16	3/2/16
 Midpoint Review Presentation 	n (in class) 3/7/16	3/7/16
 Spring Break 	3/14/16	3/18/16
Hardware Review 2	3/21/16	3/21/16
Peer Evaluation 2	3/21/16	3/21/16
 Poster Draft 	4/4/16	4/4/16
 UGRADS Presentation Walk-T 	hrough 4/18/16	4/18/16
 Operation Manual Draft 	4/18/16	4/18/16
 Final Poster Due 	4/18/16	4/18/16
 UGRADS Presentation 	4/29/16	4/29/16
 Final Product Testing Proof 	5/2/16	5/2/16
Final Report Due	5/2/16	5/2/16



IMPLEMENTATION PLAN



- 1. Material Purchasing
- 2. Prototype Construction
- 3. Prototype Testing at Hozhoni
- 4. Final Design Construction
- 5. Final Design Testing at Hozhoni
- 6. UGRADS Preparation

BILL OF MATERIALS

Item No.	Description	Material	Quantity	Price (Total)	Comments
1	Folding Legs	Steel	2	50	Purchase from Amazon
2	Table Top	Wood Board	1	50	1.5" thick, from Home Depot
3	Saw tooth Support	Aluminum	-	20	Scrap from the machine shop
4	Brackets/Bolts/Screws	-	-	50	Home Depot
5	Leg Extension	Steel	4	35	Home Depot
6	Rod Support	Aluminum	1	5	Home Depot

• Total Budget: **\$1500**

Alpha Prototype Cost: \$0

Beta Prototype Cost: \$210



THANK YOU ANY QUESTIONS?