

GAIT TRAINER WITH TREADMILL

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Date: October 31, 2024 to November 6, 2024

Problem Statement

Gait trainers are used to assist and support those who have issues with significant mobility impairments. In the winter, it is difficult to utilize the gait trainer outside. Due to the lack of access, users may suffer significant damage to physical and mental health. Utilizing a treadmill during the imperfect weather conditions would allow for increased mobility and less drastic damages to the overall health of the client. Creating a system to allow this will provide the fix needed for the client to use her gait trainer while on the treadmill.

Brief Status Update

The team has bought most materials to begin fabrication. The fabrication process started at the Makerspace on campus. The team is currently working on the base of the project and will add the complex component in the future. We are continuing to fabricate twice a week as a group.

Summary of Weekly Team Member Design Accomplishments

- Team -
 - Fabrication
 - Research
 - Show and Tell
- Meghan Kaminski -
 - Continue fabrication with the team
 - Find places to buy large stock of wood
 - Bought wood for the project
 - Completed show and tell
- Belle Counts -
 - SOLIDWORKS Testing
 - Continued to research materials
 - Work on fabrication plan
 - Finalized dimensions

- Show and Tell
- Jacki Szlagowski -
 - Show and Tell
 - Team Meeting
 - SOLIDWORKS Testing
 - Finalize ramp details and materials
- Kalob Kimmel-
 - Update team webpage
 - Team meetings
 - Show and tell
- Navya Jain -
 - Team Meetings
 - Show and tell
 - Continued looking into materials

Team Member	Tasks (brief)	Weekly Time	Total time to date
TEAM	Fabrication, research, and meetings	3 hrs	20.5 hrs
Meghan Kaminski	Fabrication, research, and meetings	3 hrs	34 hrs
Belle Counts	Fabrication, Determining Dimensions, SOLIDWORKS	3 hrs	39 hrs
Jacki Szlagowski	Fabrication, research, team meeting	3.5 hrs	31 hours
Kalob Kimmel		2hrs	27.5hrs
Navya Jain	Team Meetings, Invoice Slip, Research, Show and Tell	hrs	27 hrs
		Total	hrs

Weekly/Ongoing Difficulties

- The team is having difficulties obtaining the materials needed for fabrication. We have all smaller parts ordered, but there is limited supplies of wood on campus.
- The team is having trouble finding time to meet outside of the two hour block period. If there continues to be an issue of time, the team will utilize the extra thirty minutes left after the advising meeting to collaborate.

Upcoming Team and Individual Goals

- Team -
 - Continue fabrication
 - Create plans for testing
 - Continue researching
- Meghan Kaminski -
 - Create a statistical analysis for testing
 - Continue to create meeting for the team to fabricate
 - Attend weekly meetings
- Belle Counts -
 - Continue SOLIDWORKS testing
 - Fabricate Device
 - Pick up Wood
 - Attend weekly meeting
 - Continue researching
- Jacki Szlagowski -
 - Continue fabrication plan
 - Write out specific fabrication steps
 - Continue to meet with group
 - Research things that come up
- Kalob Kimmel -
 - Continue updating webpage
 - Fabrication
 - Research
 - Attend meetings
- Navya Jain -
 - Continue ordering materials
 - Update expense sheet
 - Fabrication

Project Timeline

Project Goal	Deadline	Team Assigned	Progress	Date Completed
Contact Client and Meet	9/12/24	All	100%	9/12/24
Research	9/20/24	All	N/A	N/A
Create PDS	9/20/24	All	100%	9/20/24
3 Preliminary Designs	9/27/24	All	100%	N/A
Preliminary Presentations	10/4/24	All	100%	N/A
Preliminary Deliverables	10/9/24	All	100%	N/A

Order Materials		All	50%	N/A
Fabricate		All	N/A	N/A
Show & Tell	11/1/24	All	100%	N/A
Final Poster Presentations	12/6/24	All	N/A	N/A
Final Deliverables	12/11/24	All	N/A	N/A

Expenses

Item	Description	Manufacturer	Mft Pt#	Vendor	Vendor Cat#	Date	QTY	Cost Each	Total	Link
Category 1: Tracks										
	Neoprene Rubber Sheet roll	Pamaz		Amazon		10/24/2024	1	\$20.03	\$20.00	Amazon.com
	Stainless Steel C-Clamp	WOPPLXY		Amazon		10/24/2024	1	\$17.92	\$17.92	https://www
	Non Slip Silicone Pads	3M		Amazon		10/24/2024	2	\$8.43	\$16.86	https://www
Category 2: Ramp										
									\$0.00	
									\$0.00	
								TOTAL:	\$54.78	