

## ***GAIT TRAINER WITH TREADMILL***

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### **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 ramp and lock system will provide the fix needed for the client to use her gait trainer while on the treadmill.

### **Brief Status Update**

This week was the first week being assigned to the gait trainer with the treadmill project. Throughout the week, the team has met with the client while conducting individual research. Each individual in the group created five questions to discuss with the client during the zoom meeting. The team plans on meeting with Dr. Settell tomorrow. In the following week, the team will begin to work on the PDS and continue research.

### **Summary of Weekly Team Member Design Accomplishments**

- Team -
  - Attend the first client meeting over zoom to create a better understanding of the project
  - Individually start research for the gait trainer and treadmill aspects
- Meghan Kaminski -
  - Created team LabArchives
  - Prepared the first progress report
  - Started working on the PDS
  - Compiled questions for meeting with client
- Belle Counts -
  - Attended meeting with client and asked several valuable questions
  - Helped organize team Lab Archives

- Completed research into competing designs
- Jacki Szlagowski -
  - Set up and attended meeting with client
  - Started research on current gait trainer model used and competing treadmill designs
  - Came up with questions to ask during the meeting
- Kalob Kimmel -
  - Prepared questions for the first client meeting
  - Attended the first client meeting over zoom to gain information about our project and client
  - Started researching for the treadmill and competing designs
  - Updated the team website
- Navya Jain -
  - Created questions for the first client meeting
  - Started researching different possible solutions

Team Member	Tasks (brief)	Weekly Time	Total time to date
TEAM	Intro meeting	0.5 hrs	0.5 hrs
Meghan Kaminski	Research, start progress report, create team notebook	2 hrs	2 hrs
Belle Counts	Met with client, researched competing designs / products	2 hrs	2 hrs
Jacki Szlagowski	Communication with client, began research	2 hours	2 hours
Kalob Kimmel	Website/Research	2 hrs	2hrs
Navya Jain	Research	1hr	1hr
		<b>Total</b>	

### Weekly/Ongoing Difficulties

- The team is having difficulty finding a time to all visit the client. With everyone's busy schedules, it is difficult to find a time that aligns with the client and our schedules. We have asked our main contact to send over a series of times that works well with the client, through this we hope to meet in person.
- 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 -
  - Attend advisor meeting
  - Come prepared with questions for Dr. Settell
  - Continue to conduct research
  - Begin working on PDS
  - Contact client to find a time slot to visit the client
- Meghan Kaminski -
  - Create PDS template
  - Continue individual research
  - Coordinate team meeting to discuss PDS requirements
- Belle Counts -
  - Work on PDS
  - Meet with client again and see equipment
  - Continue doing research
- Jacki Szelagowski -
  - Work on PDS
  - Continue research
  - Find a time to visit clients house
  - Continue communicating with client
- Kalob Kimmel -
  - Continue researching
  - Continue updating team website
  - Start brainstorming possible solutions for gait trainer
- Navya Jain -
  - Continue researching
  - Start thinking about possible solutions to attach the gait trainer
  - Start thinking about various materials that can be utilized for the solution

### 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	N/A	N/A
3 Preliminary Designs	9/27/24	All	N/A	N/A
Preliminary Presentations	10/4/24	All	N/A	N/A
Preliminary Deliverables	10/9/24	All	N/A	N/A
Order Materials		All	N/A	N/A

