

Stair Chair: BME 200/300

Dates: 9/6/24-9/12/24

Client: Mr. Daniel Kutschera, PT
Advisor: Dr. James Trevathan

Team:

Matt Sheridan (Leader)
Dan Altschuler (Communicator)
Cody Kryzer (BSAC)
Luke Rosner (BWIG)
Abi Conners (BPAG)

Problem Statement

Create a mechanical device that temporarily handicapped patients can use to ascend and descend stairs. The device should be inexpensive to fabricate, as compared to competing power stair chairs, and be able to be easily set up and broken down in or outside a patient's home.

Brief Status Update

We have met with each other to figure out our responsibilities and have set up a meeting with our client. Using information from our client and advisor meeting, we will be able to create our Product Design Specifications (PDS) and move forward with the project.

Weekly Goals and Accomplishments

- Team
 - We held a team meeting to decide upon roles and responsibilities for the semester.
 - We began to research individually to bring ideas together in future weeks.
- Matt Sheridan
 - Set up team LabArchives and Google Drive to share ideas and documents throughout the semester
 - Met with team to share goals for the semester
- Dan Altschuler
 - Made initial contact with the client
 - Set up a meeting to go over the client's ideas for the project
- Cody Kryzer
 - Met the team
 - Explored initial research for the project
- Luke Rosner

- Met team members and exchanged contact information
- Updated project website with team roles and team picture
- Abi Conners
 - Met with team members to exchange contact information and to set up how to proceed with the project
 - Begun research into the project

Upcoming Goals

- Team
 - Set up a meeting and meet with our client Mr. Daniel Kutschera
 - Begin individual research for our project and log in LabArchives
 - Create our Product Design Specifications document
- Matt Sheridan
 - Begin my research and make entries about this research.
 - Prepare for and meet with Mr. Kutschera.
 - Outline and help complete PDS documentation
- Dan Altschuler
 - Have the client meeting to learn more about the project
 - Schedule a time for the team to go to his hospital in Fitchburg to get an idea about the devices used and the ideas the client has
- Cody Kryzer
 - Meet with Mr. Kutschera and ask prepared questions
 - Visit the hospital in Fitchburg
- Luke Rosner
 - Begin research for project
 - Visit the Hospital in Fitchburg
- Abi Conners
 - Continue with research
 - Meet with Mr. Kutschera to get a clear idea of how to proceed

Project Timeline

Deliverable	Deadline	People Assigned	Progress
Initial Client Meeting	9/13	ALL	50%
Product Design Specifications (PDS)	9/20	ALL	0%
Individual Research	9/20	ALL	0%
Design Matrix Criteria	9/27	ALL	0%

Design Ideas	9/27	ALL	0%
Preliminary Presentation	10/4	ALL	0%
Individual Research	10/4	ALL	0%
Preliminary Deliverables	10/9	ALL	0%
Decide upon Final Design	10/9	ALL	0%
Finished Model of Final Design	10/25	ALL	0%
Show and Tell	11/1	ALL	0%
Final Prototype Prepared (by Thanksgiving break)	11/26	ALL	0%
Final Presentation	12/6	ALL	0%
Final Deliverables	12/11	ALL	0%

Materials and Expenses

Item	Description	Manufacturer	Mft Pt#	Vendor	Vendor Cat#	Date	QTY	Cost Each	Total	Link
Category 1										
									\$0.00	
									\$0.00	
Category 2										
									\$0.00	
									\$0.00	
								TOTAL:	\$0.00	