

Motorized wheelchair mounting system

Progress Report #1, January 31, 2008

Client: Andrea E. Johnson, CASC OTR/IT

Team: Dustin Gardner (BSAC)

Nick Harrison (BWIG)

Richard Bamberg (Communicator)

Tyler Lark (Leader)

January 25 to January 31, 2008

Problem Statement

Design a motorized wheelchair mounting system for a Speech Generating Device, which helps this young adult talk. He drives an electric wheelchair. But with the device mounted on his chair so he can access it with his left index finger and or his wheelchair joystick, he cannot see to drive the wheelchair. We are interested to find out if a standard wheelchair mounting system could be adapted to move his Vanguard up for his use/to talk and then drop down just above his left knee, so he can drive.

Last Weeks Goals

- Form Teams
- Assign Responsibilities
- Establish contact with client

Summary of Accomplishments

This week consisted mostly of research along with administrative and logistical tasks. Friday, we chose this project and team positions/responsibilities.

We are planning to meet with our client Ms. Johnson this Friday at 1:00pm. We expect to learn about the project and establish goals for the semester about what we hope to accomplish and deliver. We are also planning on meeting Ms. Johnson's client, our end-user for whom we are designing mount for, next Monday morning from 8:30-9:30a., We are all very excited to get started on this project!

This Weeks Goals

- Meet with client
- Meet end-user
- Brainstorm ideas for wheelchair mount

Project Schedule

Week	Date	Goals
1	1/25	Form team, contact client, assign team roles, set up client meeting
2	2/1	Literature research, meet with client
3	2/8	PDS, brainstorming, post preliminary PDS and photo on website
4	2/15	Brainstorm, preliminary design ideas
5	2/22	Work on designs

6	2/29	Decide on design alternatives, make presentation
7	3/7	Oral presentation
8	3/12	Notebooks, evaluations and written report due
	3/14	Decide on final design
	3/21	SPRING BREAK
10	3/28	Work on final design
11	4/4	Work on final design,
12	4/11	Work on final design, begin preparing poster and paper
13	4/18	Product validation/verification testing, work on poster and paper
14	4/25	Complete design, print poster, edit paper
15	5/2	Final Poster Presentation
16	5/7	Hand in final deliverables
	5/9	Final meeting with advisor; deliver product to client

Activities

Dustin:

Team meeting (1 hr)
Literature research (1.5 hr)
Total: 2.5 hrs

Nick:

Team meeting (1 hr)
Literature research (1.5 hrs)
Total: 2.5 hrs

Richard:

Team meeting (1 hr)
Literature research (1 hr)
Client communications (.5 hr)
Total: 2.5 hrs

Tyler:

Team meeting (1 hr)
Literature research (1 hr)
Team logistics (.5 hr)
Total: 2.5 hrs