

Title: Device for acute rehabilitation of the paretic hand after stroke (Project #20)

Team: Medical College of Wisconsin: Dr. Michelle Johnson (client)
Sasha Cai Leshner-Pérez (Leader)
Mike Socie (Leader)
Carly Brown (Communicator)
Karissa Thoma (BSAC)
Justin Lundell (BWIG)

Date: October 6, 2006 – October 12, 2006

Project Design Statement:

We will design a portable device that will facilitate hand rehabilitation in the acute phase (first three months) after stroke; the device will consist of a simple attachment to the impaired arm, comfort for the user and accommodations for almost complete universal use.

Restatement of Team Goals:

- Individual and team brainstorming
- Contact client
- Begin midterm paper
- Split up designs

Individual Goals:

- **Sasha Cai:** Design Arm Support, Work on Mid-semester Document,
- **Mike:** Work on Mid-semester Document, Design Interaction and Engagement Unit
- **Carly:** Work on Mid-semester Powerpoint, Design Interaction and Engagement Unit
- **Karissa:** Work on Mid-semester Powerpoint, Design Interaction and Engagement Unit
- **Justin:** Work on Mid-semester Document, Design Interaction and Engagement Unit

Summary of Accomplishments:

- 1) Contacted Client
- 2) Assign Design Roles
- 3) Time Chart Made
- 4) Began Midsemester Document

Team Goals:

- Finalize Mid-Semester Document
- Finish PPT
- Finalize Solidworks Designs
- Practice Mid-Semester

- Begin Research on Components

Difficulties:

Unsure of which form of electrical stimulators will be used within PT

Activities:

10/06/06 – Team Work Design Plans started	1 hour
10/07/06 – Mike, Justin, Sasha Cai worked on Midsemester Paper	2 hour
10/09/06 – Team Work: Contacted client	1 hour
10/09/06 – Team Work Designing possible prototypes	1 hour

Timetable

Project Tasks	Due Date	Team Hours Work	Mike	
Progress Report	Every Thursday		3	1.5
Solidworks of Designs	October 15, Sunday		10	2
Midterm Powerpoint	October 18, Wednesday		2	0
Midterm Presentation	October 20, Friday		5	1
Midterm Paper	October 22, Sunday		10	4
Clinical Visit	TBA		5 TBA	
Client Visit	TBA		5 TBA	
Components/Materials	October 30, Monday		10	2
Manufacturing	November 17, Friday		73	18
Testing	December 1, Friday		15	2
Final Paper	December 4. Monday		5	1
Final Powerpoint	December 4. Monday		5	1
Final Presentation	December 4. Monday		5	1