

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: November 3, 2006 – November 9, 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:

- Research materials
- Order/Purchase some materials
- Begin fabrication

Individual Goals:

- **Sasha Cai:** Research velcro
- **Mike:** research joysticks, make final selection of foam and hoseclamps
- **Carly:** Research joystick
- **Karissa:** RC Car motor
- **Justin:** Research blood pressure cuffs

Summary of Accomplishments:

- 1) Visited with client
- 2) Ordered base tray materials
- 3) Re-worked design based on client specs

Team Goals:

- Order most materials
- Start fabrication

Difficulties:

After meeting with our client, we discovered we were on the wrong track in a couple of areas and had to rework our design.

Activities:

11/3/06 – In class meeting: meet with client in Milwaukee

4 hour

11/6/06 – Team meeting: materials/rework design concept
11/9/06 – Team meeting with Mitch: design changes

1.5 hour
1 hour

Budget:

Total budget: \$750

Spending this week: \$36.99

Total budget remaining: \$713.01

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