

Title: Device for acute rehabilitation of the paretic hand after stroke

Team: Sasha Cai Leshner-Pérez (Leader)
Carly Brown (Communicator)
Lee Linstroth (BSAC)
Nathan Kleinhans (BWIG)

Date: October 19 – October 25, 2007

Project Design Statement:

Design a portable automated device that will facilitate hand rehabilitation in the acute phase (first three months) after stroke within a clinical setting; focus of rehabilitation will be supination/pronation movements of the wrist and gross flexion/extension of the fingers. Both active and passive movements will be focused on for rehabilitation, and the device should be able to simultaneously or independently assist rehabilitation of the two degrees of motion.

Team Goals:

- Finish prototype
- Acquire data on technical specifications

Individual Goals:

- **Carly:** Construction of device, make sure to be in communication with Michelle to monitor progress of proposal
- **Lee:** Construction of prototype
- **Nathan:** Construction of prototype
- **Sasha Cai:** Working on microprocessor programming, construction of hand flexion device

Summary of Accomplishments:

- 1) Have all materials for prototyping
- 2) Submitted notebooks
- 3) Mid-semester presentations

Difficulties:

None

Activities:

Mid-semester Presentation: 10/19/07

.25 hours

Team Meeting: 10/22/07

1 hour