Progress Report 11

Project Title: Medical Device Cart
Team Members: Joe Cabelka, Jennifer Wager, Emily Andrews, Tony Schuler
Client: Peg Rickard, Art Kealy Viasys
Advisor: Prof. Block
Date: 11/23/06-11/30/06

Problem Statement: Our goal is to develop an ergonomically correct medical device cart to house all components of an EEG machine that will facilitate rapid work flow and alleviate problems with current carts.

Restatement of Team Goals: Fabrication

Individual Goals:
- Joe Cabelka:
  1. Continue/Finish building
- Jenny Wager:
  1. Continue/Finish building
- Emily Andrews:
  1. Continue/Finish building
- Tony Schuler:
  1. Continue/Finish building

Summary of Accomplishments:
1. Fabrication of individual designs

Summary of Team Goals:
1. Continuation of fabrication
2. Communicate with Viasys about materials for presentation

Project Schedule:
9/18/06 Meet with client
9/19/06 – 10/12/06 Research, brainstorm, and develop PDS
10/06/06 – 10/19/06 Prepare oral presentation and Preliminary Design Report
10/20/06 Mid-semester oral presentation and PDR due
10/15/06 – 10/22/06 Decide on final design
10/22/06 – 12/07/06 Work on design and build prototype
11/27/06 – 12/07/06 Prepare final oral presentation
12/08/06 Final oral presentation
11/30/06 – 12/12/06 Prepare final report, PDS, and design drawings
12/15/06 Final meeting with advisor
Difficulties:
Fabrication is going pretty smoothly. The main difficulty now will be communicating with Viasys to get our presentation set up on the presentation day. Currently, the goal is to have two set-ups, the old vs. the new, to help demonstrate the difference.

Activities:
Team:
No team meetings this week.

Joe Cabelka:
1. Fabrication (1.5 hr)
   - Emily and I found a keyboard system and placed an order. The dimensions might not quite fit the cart, so some modification will be necessary. The cart shelves and components are almost all cut and re-arranged. A few welds still need to be made. We were just informed that our Keyboard system arrived, so hopefully we will be able to finish with that tomorrow.

Jenny Wager:
1. Update Notebook (30 min)

Emily Andrews:
1. Updated notebook (30 min)
2. Supplies (1 hr 15 min)
3. Fabrication (1.5 hr)
   - Joe and I spent time finalizing cart dimensions and researching keyboard trays that are of the appropriate size for the frame of the cart. The tray I ordered will require some slight modifications to adapt to the sit-stand lever arm we selected. I also found an aerosol rubber spray that we will use to coat the shelves with. I had difficulties find an appropriate desk mat, but plan to look for a placemat that may function well. Joe and I nearly finished the rearrangement of the shelves. Future work will include mounting the keyboard arm and tray, mounting the monitor, and spraying the shelves with rubber paint.

Tony Schuler:
1. Update Notebook (2 hr)
2. Fabrication (3.5 hr)
   - This week I gathered the remaining parts necessary to build the new push-bar and continued fabricating. Everything is going pretty smoothly, and things should be wrapped up by the end of the week.

Total Team Hours (x 5 people) for Week: 0.00 hours
Total Individual Hours for Week: 10.75 hours
Cumulative Team Hours to Date: 115.65 hours