Progress Report 8

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: 10/2/06-11/9/06

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: Break down the project into separate parts, make a budget to give to Viasys

Individual Goals:
Joe Cabelka:
1. Incorporate anthropometric data into dimension of existing cart

Jenny Wager:
1. Begin work on the design of the cable management system

Emily Andrews:
2. Incorporate anthropometric data into dimension of existing cart

Tony Schuler:
1. Begin work on the design of the adjustable push bar

Summary of Accomplishments:
1. Submitted budget to Viasys
2. Split up design into individual sections

Summary of Team Goals:
1. Continue work on individual designs
2. Get needed parts

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:**

Our main difficulties include communicating with Viasys about our proposed budget and getting our needed parts so we can begin working on the prototype.

**Activities:**

**Team:**
1. We met with Cara and Farshad to discuss our proposed budget (1 hr)
   - They gave us some good advice about alternatives to what we proposed to help reduce the cost and gave us some options for procuring our needed items.

**Joe Cabelka:**
1. Reviewed anthropometric data (30 min)
   - My week consisted of reviewing the data gathered by Emily and thinking about how we will use the data to adjust the dimensions of the current cart.

**Jenny Wager:**
1. Cable management design (1 hr)
   - I found the necessary supplies and prices to make the cable caddy. I also emailed Farshad to figure out the number of cords. I will design the caddy for 10 cords.

**Emily Andrews:**
1. Compiled useful anthropometric data (30 min)
   - Basically I went through all of the researched data and pulled out the information that will be useful to us.

**Tony Schuler:**
1. Website (30 min)
2. Update Notebook (30 min)
3. Adjustable push bar design (1 hr)
   - This week I spent a decent amount of time coming up with several designs for the adjustable push-bar. As far as extending the bar horizontally, I plan on inserting several inches of thin, steel piping. To make the push-bar adjustable vertically, I have come up with several designs, including a pin mechanism like a crutch, a screw mechanism that tightens the push bar in place, and another pin mechanism where you simply insert the pin into a hole in the push-bar, locking it in place. I have also made good drawings for each of the designs. As far as updating the website is concerned, I just uploaded the most recent progress report and updated the project status.

**Total Team Hours (x 5 people) for Week:** 1.00 hours
**Total Individual Hours for Week:** 4.00 hours
**Cumulative Team Hours to Date:** 95.60 hours