

## **Face Cradle Progress Report** **2/16/2009-2/22/2009**

### **Names**

Nate Cira, leader  
Patrick Kurkiewicz, BSAC  
Annie Loevinger, communicator  
Matt Hoffman, BWIG

### **Client**

Susan Frikken

### **Problem Statement**

Current static massage chair face cradles do not adjust as the subject becomes more relaxed. This results in the subject's neck and head remaining in an uncomfortable strained position. This device must perform two important functions. First, it must support the neck and head of a patient receiving a chair massage. Second, it must dynamically adjust as the patient relaxes to accommodate a different position.

### **Last Week's Goals**

- Work toward full shop certification
- Contact other massage therapists to get more input
- Continue research on face cradle patents and products in existence
- Continue brainstorming and sketching ideas for potential solutions
- Critique design options, begin to narrow focus
- Research specific materials and costs
- Get specific rates, distances, and anatomical data of different people during massages
- Nate: Write progress report for prior week
- Matt: Post progress reports work toward shop certification

### **Summary of Accomplishments**

- Nate wrote progress report. 2/19
- Pat generated computerized renderings of the current face cradle.
- Annie scheduled client meeting for 2/25 and invited Susan to the mid-semester presentation.
- Nate Annie and Pat met and discussed designs and questions related to the project 2/20
- Pat attended the BSAC meeting. 2/20
- Team watched and reflected on ergonomics presentations.
- Annie researched parts for an electronic design.
- Nate researched pneumatic cradle

### **This Week's Goals**

- Rank design criteria
- Generate design matrix
- Prepare presentation
- Meet with Susan
- Team: work toward full shop certification
- Research specific materials and costs
- Annie: contact other massage therapists

- Pat: make drawings
- Nate: Write progress report for prior week
- Matt: Post progress reports work toward shop certification

### **Project Difficulties**

Quantifying exact changes in body posture through the massage is challenging, but will be addressed at the client meeting on 2/25.

### **Activities**

18/02/2009	Annie:	Correspondence with client and team	.25 hr
19/02/2009	Annie:	Parts research	.75 hr
Midweek	Team:	Ergonomics presentation and reflection	.5 hr
Midweek	Pat:	CAD drawing and tool checkout	2.25 hr
19/02/2009	Nate:	Wrote progress report	.5 hr
20/02/2009	Pat:	BSAC	1 hr
20/02/2009	Nate, Pat, Annie:	Met with advisor and discussed project	2 hr
21/02/2009	Annie:	Mid-semester invite and meeting	.5 hr
22/02/2009	Nate:	Design research	1 hr

### **Totals**

Nate:	8.5 hours
Annie:	7.25 hours
Matt:	2 hours
Patrick:	6.75 hours
Team:	9 hours

### **Expenses**

Currently none

## Project Schedule

Task	January					February					March					April					May								
	30	6	13	20	27	6	13	20	27	6	13	20	27	6	13	20	27	6	13	20	27	6	13	20	27	6	13	20	27
<b>Deliverables</b>																													
Website																													
Progress Report																													
Notebook																													
Midterm Presentation																													
Final Presentation																													
Final Poster																													
Final Report																													
Client Evaluation																													
Peer and Self Evaluations																													
<b>Meetings</b>																													
BSAC																													
Team																													
Client																													
Advisor																													
<b>Project Research</b>																													
Patent and Product																													
Anatomical Data																													
Padding Research																													
Covering Research																													
<b>Project Development</b>																													
Select Project																													
Brainstorm Ideas																													
Narrow Ideas																													
Select Idea																													
Work on Design																													
Fabricate Prototype																													

Key:	
Team	
Nate	
Matt	
Patrick	
Annie	