

# Hand Exerciser

## Progress Report #7

4/3/08

Client: Alexander Yevzlin  
Advisor: John Webster  
Team: Brian Ginter (Leader)  
Patrick Kurkiewicz (BWIG)  
David Leinweber (Communications)  
Matt Hoffman (BSAC)

### March 28 to April 4

#### Problem Statement

Develop a stress ball type hand exerciser capable of recording and transmitting data to be used in medical studies.

#### Last Week's Goals

- Contact Amit regarding pressure transducer
- Continue work on design
- Develop plan for prototype materials

#### Summary of Accomplishments

This week we met with Amit to discuss our pressure transducer. We have a plan with how to work with it but it will still take some work. Our plan is to concurrently build both a design with the pressure transducer while still experimenting with the piezoelectric idea.

#### This Week's Goals

- Continue design work

#### Activities

- Brian
  - Personal Design Research/Brainstorming (2 hrs)
  - Progress Report (.5 hrs)
  - **Total: 2.5 Hours**
- Patrick
  - Personal Design Research/Brainstorming (2 hrs)
  - Tuesday Meeting (3 hrs)
  - **Total: 5 Hours**
- David
  - Personal Design Research/Brainstorming (2 hrs)
  - Tuesday Meeting (3 hrs)
  - **Total: 5 Hours**
- Matt
  - Personal Design Research/Brainstorming (2 hrs)
  - Tues Team Meeting (3 hrs)

- **Total: 5 Hours**

### **Project Schedule**

- 1/25 Form team, contact client, assign team roles, set up client meeting
- 2/1 Literature search, create problem statement, begin PDS
- 2/8 PDS, brainstorming, begin developing designs
- 2/15 Brainstorming
- 2/22 Decide on 3 design alternatives, prepare for mid-semester presentation
- 2/29 Work on presentation
- 3/7 Mid-Semester Presentation
- 3/14 Hand in report (and PDS) and notebooks, decide on final design
- 3/21 Spring Break
- 3/28 Work on final design
- 4/4 Work on final design
- 4/11 Work on final design
- 4/18 Work on final design, poster presentation and paper
- 4/25 Final Poster Presentation
- 5/2 Hand in final written report and notebooks
- 5/9 Final meeting with advisors