Progress Report  
October 20, 2005  

Project Title: EEG Biofeedback Device  

Team Members:  
Ashley Anderson, Team Leader  aandersoniii@wisc.edu  
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Ryan Thome, BWIG  thome@wisc.edu  
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Client:  
Daniel Muller, MD, PhD  
Medicine (Rheumatology)  
Institute on Aging, Mind-Body Center  
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UW-Madison  
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Advisor:  
John Webster  

Date: 10/20/05  

Problem Statement:  
(Project Description)  
The goal of our project is to design and build an inexpensive, portable electroencephalogram (EEG - brain wave monitor) that teaches meditation practitioners to achieve optimal meditation by the presence of EEG alpha and theta waves.  

Restatement of team goals:  
1. Meet with client  
2. Create Problem statement  
3. Work on PDS  
4. Begin research and design  
   a) Research all possible background information.  
   b) Research existing solutions  
   c) Develop possible design solutions  
5. Continue research, design, and testing  
6. Write Midterm paper  
7. Finish PowerPoint presentation  
8. Discussing possible final design alternative  
9. Finalizing design  
10. Build and test prototype
11. Present final design

**Project Schedule:**
- 09/02/05 – Choose team and project, set up meeting with client
- 09/09/05 – Meet with client, background research, discuss PDS
- 09/16/05 – 10/07/05 – Brainstorm, work on design
- 10/07/05 – Finalize oral presentation
- 10/14/05 – Oral presentations, written report, PDS, and notebooks are due
- 10/14/05 – 11/18/05 – Work on design
- 11/25/05 – Thanksgiving
- 12/02/05 – Final poster presentations
- 12/07/05 – Final written report, notebooks due
- 12/09/05 – Final meeting with advisor

**Summary of Team Accomplishments:**
1. Successfully completed the Power Point presentation
2. Finished the mid-semester report.
3. Started making contacts and looking for parts

**Summary of Individual Accomplishment:**
1. Every team member looked for parts.
2. Shikha wrote the progress report

**Statement of Team Goals:**
1. Decide on best electrode and test it
2. Build the amplifier
3. Begin to investigate analogue vs. digital
4. Finish last few corrections and sections of mid-semester report.

**Difficulties:**
We have been busy finishing the paper formalities for the course and writing mid-semester report. We are still deciding which electrode design to go for. Also, we want to create the amplifier and electrodes ASAP as to be able to test and redesign where necessary.

**Activities:**
- Ashley - Team meetings 1 hr
  - Mid-semester report 1.5 hr
- Chris - team meetings 1 hr
  - Mid-semester report 1.5 hr
- Michele - Team meetings 1 hr
  - Searched for parts 1.5hr
- Ryan - Team meetings 1 hr
  - Mid-semester report 1.5 hr
  - Searched for parts 1 hr
- Shikha - team meetings 1 hr
  - Mid-semester report 1 hr
- Searched for parts 1 hr

Team Total Hours for this week: 14
Cumulative Team Hours to date: 85.5