

Progress Report 8
October 27, 2005

Project Title: EEG Biofeedback Device

Team Members:

Ashley Anderson, Team Leader aandersoniii@wisc.edu
Chris Wegener, Co-Leader cjwegener@wisc.edu
Michele Lorenz, Communicator lorenz@wisc.edu
Ryan Thome, BWIG thome@wisc.edu
Shikha, BSAC shikha@wisc.edu

Client:

Daniel Muller, MD, PhD
Medicine (Rheumatology)
Institute on Aging, Mind-Body Center
2605 MSC
UW-Madison
265-2478 dmuller@wisc.edu

Advisor:

John Webster

Date: 10/27/05

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
 - e) 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. Continued making contacts
2. Purchased parts

Summary of Individual Accomplishment:

1. Every team member looked for parts.
2. Michele 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

Difficulties:

We are still deciding which electrode design to go for, and are in the middle of the building process. Work this week will hopefully lead to evaluation of our current plans and possible redesign.

Activities:

Ashley - Team meetings 1 hr
Part location and purchase 1hr
Chris - team meetings 1 hr
Part location and purchase 1 hr
Michele - Team meetings 1 hr
Ryan - Team meetings 1 hr
Shikha - team meetings 1 hr

Team Total Hours for this week: 7

Cumulative Team Hours to date: 92.5