

Progress Report 9

November 9, 2006

Project Title: Sensory Substitution Device for Hearing Impairment

Team Members:

Ryan Thome, Co-Team Leader

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Client:

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Advisor:

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Date: 11/02/06 – 11/09/06

Problem Statement:

The goal is to design and develop an auditory substitution device that through the use of a digital hearing aid and vibro- or electro-tactile stimulation can substitute for regional frequency hearing loss.

Statement of Team Goals:

1. Meet with client
2. Create Problem statement
3. Begin 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. Create PowerPoint presentation
8. Discuss possible final design alternative

9. Finalize design
10. Build and test prototype
11. Present final design

Project Schedule:

- 9/8/06 – Choose team and project, meet with client
9/15/06 – Background research, preliminary design ideas
9/22/06 – Continue background research, develop PDS
9/29/06 – Brainstorm
10/6/06 – Decide on design alternatives
10/13/06 – Work on mid-semester presentation and report
10/20/06 – Give mid-semester presentation, finalize mid-semester report
10/27/06 – Decide on final design
11/3/06 – 11/24/06 – Work on final design
12/1/06 – Finalize design and final presentation, begin work on final paper
12/8/06 – Give final poster presentation, finalize paper
12/15/06 – Final meeting with advisor

Summary of Team Accomplishments:

1. Drafted project timeline for remainder of semester
2. Delegated roles for each group member

Summary of Individual Accomplishments:

1. Laura sent out e-mail about vibro-tactile buzzers
2. Jack updated the website with progress report
3. Ryan wrote the progress report

Upcoming Week's Team Goals:

1. Design band-pass filter circuit and amplifier
2. Figure out what components need to be ordered

Difficulties:

We have yet to encounter any major difficulties.

Activities:

Ryan – class meeting 1 hr
team meeting 1 hr
progress report 0.5 hr

Sarah – class meeting 1 hr
team meeting 1 hr

Amy - class meeting 1 hr
team meeting 1 hr

Laura - class meeting 1 hr

team meeting 1 hr

Jack - class meeting 1 hr

team meeting 1 hr

Team Total Hours for this week: 10.5

Cumulative Team Hours to date: 158.5