Project Title: Sensory Substitution Device for Hearing Impairment

Team Members:
Ryan Thome, Co-Team Leader        thome@wisc.edu
Sarah Offutt, Co-Team Leader       offutt@wisc.edu
Amy Weaver, BSAC                   aweaver@wisc.edu
Laura Bagley, Communicator         lbagley@wisc.edu
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Client:
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Advisor:
Mitchell E. Tyler, P.E., M.S.
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Date: 11/31/06-12/7/06

Problem Statement:
The goal is to design and develop an auditory substitution device that through the use of vibro-tactile stimulation can substitute for regional frequency hearing loss, in order to aid in daily communication needs.

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. Client Meeting
2. Finished prototype
3. Completed and practiced presentation

**Summary of Individual Accomplishments:**
1. Jack updated the website with newest progress report
2. Sarah wrote the progress report

**Upcoming Week’s Team Goals:**
1. Write final paper
2. Meet with Professor Tyler

**Difficulties:**
We have yet to encounter any major difficulties.

**Activities:**

Ryan – class meeting 1.0 hr  
client meeting 1.0 hr  
circuit work 8.0 hr  
presentation 3.5 hr  
team meeting 2.0 hr

Sarah – class meeting 1.0 hr  
client meeting 1.0 hr  
progress report 0.5 hr  
circuit work 10.0 hr  
presentation 3.5 hr
team meeting 2.0 hr

Amy - class meeting 1.0 hr
client meeting 1.0 hr
circuit work 8.0 hr
presentation 3.5 hr
team meeting 2.0 hr

Laura - class meeting 1.0 hr
client meeting 1.0 hr
circuit work 4.0 hr
presentation 3.5 hr
team meeting 2.0 hr

Jack - class meeting 1.0 hr
client meeting 1.0 hr
circuit work 8.0 hr
presentation 3.5 hr
team meeting 2.0 hr

Team Total Hours for this week: 76.0
Cumulative Team Hours to date: 300.5