Progress Report 7
October 26, 2006

**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:**
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**Date:** 10/20/06 – 10/27/06

**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
   c) 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. Gave an excellent mid-semester presentation
2. Turned in completed mid-semester report

**Summary of Individual Accomplishments:**
1. Laura set up a meeting with our client
2. Jack updated the website with completed PDS and newest progress report
3. Ryan wrote the progress report

**Upcoming Week’s Team Goals:**
1. Design circuit
2. Meet with client to discuss proposed design
3. Figure out what components need to be ordered

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

**Activities:**
Ryan – class meeting 2 hr
    Team meeting 0.5 hr
    report writing 2 hr
    progress report 0.5 hr

Sarah – class meeting 2 hr
    team meeting 0.5 hr
    report writing 2 hr

Amy - class meeting 1 hr
team meeting 0.5 hr
report writing 2 hr

Laura - class meeting 1 hr
team meeting 0.5 hr
report writing 2 hr

Jack - class meeting 2 hr
team meeting 0.5 hr
report writing 2 hr

Team Total Hours for this week: 21
Cumulative Team Hours to date: 132.5