Project Title: Sensory Substitution Device for Hearing Impairment

Team Members:
Jack Page – Co-Team Leader       jdpage@wisc.edu
Jimmy Fong – Co-Team Leader      fong@wisc.edu
Matthew Valaskey - BWIG          mvalaskey@wisc.edu
Becky Jones – BSAC               rebeccajones@wisc.edu
Ryan Thome – Communicator        thome@wisc.edu

Client:
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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. We will continue the work from last semester, mainly focusing on integrating vibro-transducers into the system in order to prepare the system for laboratory trials.

Statement of team goals:
1. Create problem statement
2. Create first draft of PDS
3. Begin to research and develop design ideas
4. Continue the design project
   a) Acquire vibro-transducers
   b) Research all possible background information.
   c) Research existing and design alternatives
d) Brainstorm for all possible solutions
e) Meet with experts to gain ideas about possible solutions
f) Develop possible design solutions

5. Choose final three design solutions
6. Develop final three solutions
7. Create Power point presentation
8. Finish mid semester report, PDS
9. Discuss possible final design alternative
10. Finalize Design
11. Build and test prototype
12. Present final design & poster

**Project Schedule**

1/26 – 2/1: Choose project, assign roles, meet with client
2/2 –2/9: Draft first version of PDS, preliminary design ideas to improve prototype
2/10 – 2/16: Continue research and write PDS
2/17 – 2/23: Decide on design alternatives, brainstorm ideas
3/23 – 3/2: Work on design
3/9: Mid-semester oral presentations
3/16: Hand in written report, PDS and notebooks
3/17 – 3/31: Work on design

Spring Break
4/9 – 4/25: Work on Design, plan tests for the prototype
4/26 – 5/4: Work on final poster, presentation and report. Test the prototype and present to client.
5/4: Poster presentation

**Last week’s goals**

1. Organized group and set up roles.
2. Sent out contact information to everyone.
3. Set up client meeting.

**Summary of Team Accomplishments:**

1. Met with client
2. Emailed Tom Crabb requesting meeting to discuss vibro-transducers
3. Created first draft of PDS
4. Researched and brainstormed to improve prototype
5. Created first draft of the Gantt Chart.

**Statement of Team Goals for Upcoming Week:**

1. Edit and update PDS and Gantt Chart
2. Research into what still needs to be implemented on this project
3. Set up the project webpage
4. Continue brainstorming
5. Meet with Tom Crabb and Figure out how to acquire vibro-transducers
**Difficulties:**
None thus far

**Activities and Individual Accomplishments:**
Team In-class/lab meeting (1 hour)
Team meeting for PDS draft 1 and Gantt Chart draft 1 (2 hours)
Client Meeting (2 hours)

Jimmy - 1 hr – PDS work, research, and brainstorming
Matt - 1 hr – Background research on previous work, brainstorming, and PDS work
Ryan - 1 hr – Emailing Tom Crabb, PDS work, and research
Jack - 1 hr – Progress Report, PDS work, research, and brainstorming
Becky - 1 hr – PDS work, Background research on the project, and brainstorming

**Team total hours for this week: 30.0 hrs**
**Cumulative team hours to date: 40.0 hrs**

Gantt Chart

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<tr>
<th>TASK</th>
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