

# PROJECT COMPLETE

## ***Cell Phone and Hearing Aid Interface***

**Client:** *William E. Fahl, Ph.D.*

**Team Members:** *Leah Brandon (Leader)*  
*Adam Dahlen (Communications)*  
*Nathan Kleinhans (BWIG)*  
*Sara Worzella (BSAC)*

**Advisor:** *John Webster*

September 2 to September 8, 2005

### **Problem Statement**

Currently, there are no available devices allowing people with in-ear hearing aids to utilize a cell phone without first removing the hearing aid. When a cell phone is held up to such a hearing aid the wearer experiences feedback squealing. However, removing the aid isn't an acceptable solution because in-ear aids are small slippery pieces of plastic worth around \$1,500. The goal is to create an interface that allows people requiring in-ear hearing aids to utilize their cell phones without experiencing feedback squealing, damage, or loss of the aid.

### **Summary of Team Accomplishments**

- Assigned team roles
- Contacted advisor
- Contacted client
- Set up initial client meeting
- Background research

### **Current Week's Goals**

- Meet with client (Set time for Tuesday at 12:30)
- Work on Product Design Specification (PDS)
- Setup website
- Start thinking of ideas for potential designs

### **Project Difficulties**

• Mild problem in finding a meeting time that works for the team and client due to immense variations in schedules. No other problems to report thus far.

### **Project Schedule**

Week 1	form teams, select a project, contact and meet with client
Week 2	literature search, meet with client, begin assigning PDS parts
Week 3	literature search, develop PDS and review as a team
Week 4	brainstorm design ideas
Week 5	decide on three alternative designs
Week 6	work on oral presentations and written report

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Week 7	oral presentations: hand in report, PDS, design notebooks
Weeks 8-11	decide upon final design, work on prototype
Weeks 12-14	prepare for final presentations (Dec 2), finish final design
Week 15	hand in written report and notebook to advisor (Dec 7) and final advisor meeting (Dec 9)

## Activities

### ***Leah Brandon:***

<i>Team Meeting</i>	<i>.5hrs</i>
<i>Progress Report</i>	<i>.5hrs</i>
<i>Internet Search</i>	<i>2hrs</i>
<b><i>Total</i></b>	<b><i>3hrs</i></b>

### ***Adam Dahlen:***

<i>Team Meeting</i>	<i>.5hrs</i>
<i>Preliminary Research</i>	<i>1 hr</i>
<i>Client Communication</i>	<i>.5hrs</i>
<b><i>Total</i></b>	<b><i>2hrs</i></b>

### ***Nathan Kleinhans:***

<i>Team Meeting</i>	<i>.5hrs</i>
<i>Preliminary Research</i>	<i>1 hr</i>
<b><i>Total</i></b>	<b><i>1.5hrs</i></b>

### ***Sara Worzella:***

<i>Team Meeting</i>	<i>.5hrs</i>
<i>Internet Research</i>	<i>1.5 hrs</i>
<i>Obtaining Supplies</i>	<i>.5 hrs</i>
<b><i>Total</i></b>	<b><i>2.5hrs</i></b>

**Team Total Hours this week: 9 hrs**

**Team Total Hours to date: 9 hrs**

## Expenses

- No expenses to date