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 9 to September 13, 2005

Problem Statement

Currently, 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

• Met with client
• Wrote summary of findings for client use
• Completed project

Project Difficulties

• None, project completed

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 are 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
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:

Client Meeting .5hrs
PROJECT COMPLETE

*Progress Report*  .5hrs  
*Internet Search*  1hr  
*Summary of findings*  1hr  
**Total**  3hrs

**Adam Dahlen:**
*Client Meeting*  .5hrs  
*EMF coatings research*  2hrs  
**Total**  2.5hrs

**Nathan Kleinhans:**
*Client Meeting*  .5hrs  
*Current designs Research*  1 hr  
*Webpage implementation*  2hrs  
**Total**  3.5hrs

**Sara Worzella:**
*Client Meeting*  .5hrs  
*Hearing Aid Research*  1hr  
**Total**  1.5hrs

Team Total Hours this week: 10.5hrs

Team Total Hours to date: 19.5 hrs

**Expenses**
- No expenses to date