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 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
PROJECT COMPLETE

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:

Team Meeting .5hrs
Progress Report .5hrs
Internet Search 2hrs

Total 3hrs

Adam Dahlen:

Team Meeting .5hrs
Preliminary Research 1 hr
Client Communication .5hrs

Total 2hrs

Nathan Kleinhans:

Team Meeting .5hrs
Preliminary Research 1 hr

Total 1.5hrs

Sara Worzella:

Team Meeting .5hrs
Internet Research 1.5 hrs
Obtaining Supplies .5 hrs

Total 2.5hrs

Team Total Hours this week: 9 hrs

Team Total Hours to date: 9 hrs

Expenses

• No expenses to date