

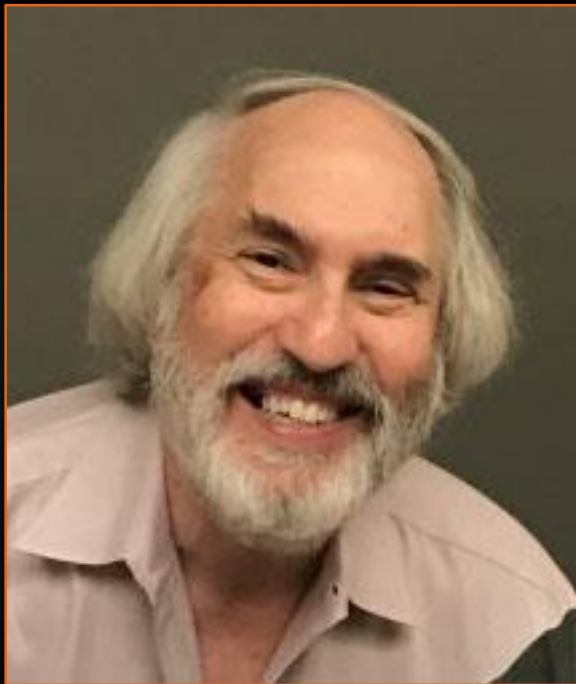
February 2, 2021

Bionic Ears: Cochlear Implants and the Future of Assistive Technology



ENGR110/210

Perspectives in Assistive Technology



David L. Jaffe, MS
Instructor

15
Years

Questions?



Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them.



Upcoming class sessions



- ▶ **Issues of Human Interface Design -**
Gary M. Berke, MS, CP, FAAOP - Thu, Feb 4th
- ▶ **From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments –**
Sha Yao - Tue, Feb 9th
- ▶ **The Design and Control of Exoskeletons for Rehabilitation –**
Katherine Strausser, PhD - Thu, Feb 11th
- ▶ **Mid-term Student Project Presentations –**
Tue, Feb 16th



Students working on projects

Expected Activities for Fabrication Projects



- ▶ Connect with project partner
- ▶ “Understand the Problem”
- ▶ Internet search
- ▶ Existing products / devices
- ▶ Survey technology
- ▶ Brainstorm
- ▶ Select Design Concept(s)
- ▶ Sketches, low resolution prototypes



Students working on projects

Mid-term Presentations Update



- ▶ Mid-term presentations will be 3 minutes, no slides, no screen sharing, informal, not graded
- ▶ **Fabrication Projects:** Project title, background, problem, aim, design criteria, “understanding the problem” & brainstorming activities, and selected solution
- ▶ **Non-fabrication Projects:** Project title, background, activities performed, and future plans
- ▶ All students working on the same project will present together
- ▶ Async students can submit a 3 minute video
- ▶ Presentation tips on course website

Students working on projects

Mid-term Report Update



- ▶ Mid-term report – **10 pages maximum** of narrative submitted collectively by all students working on the same project
- ▶ Suggested format different for fabrication vs non-fabrication projects
- ▶ Please note that a longer report is not necessarily better. I would much rather read a shorter, concise, well-written, and highly readable report than a longer, poorly written report with many grammatical and spelling errors.
- ▶ Grading: - Excellent, Very Good, Good, Poor
- ▶ Report Writing Tips on course website

Students working on projects

Progress Report Format



- ▶ Each project is different, so there is no required or recommended format for these reports
- ▶ You decide how best to describe your past week's activities
- ▶ Report could include:
 - ▶ Text
 - ▶ Sketches, CAD drawings
 - ▶ Photos
 - ▶ Video

Reminder - Work with Diligence



- ▶ Time is your most precious resource
- ▶ 2 weeks of class until Mid-term Presentations - Tue, Feb 16th
- ▶ It is not too early to outline your presentation & report



Thursday, February 4th



Issues of Human Interface Design

Gary M. Berke, MS, CP, FAAOP

Stanford Medical Center

Today



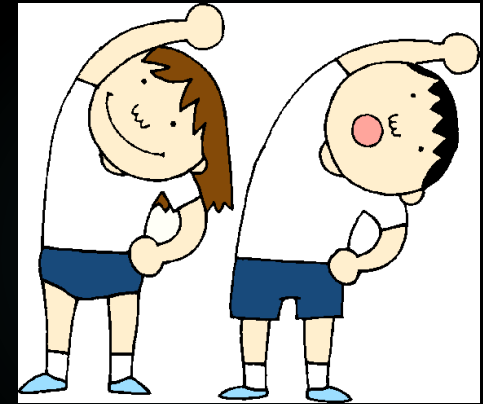
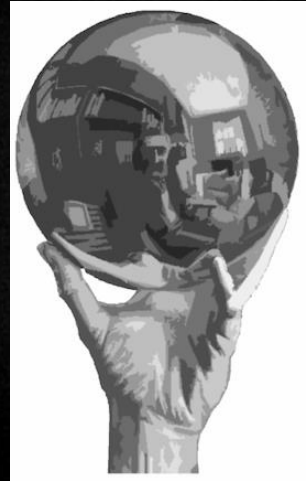
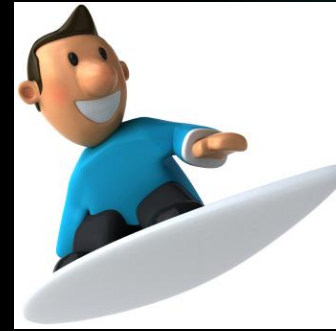
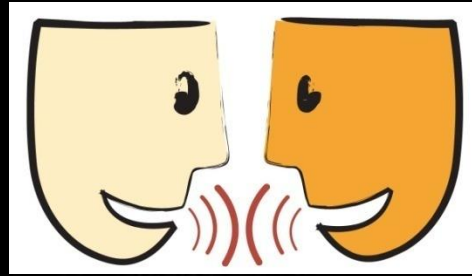
Bionic Ears: Cochlear Implants and the Future of Assistive Technology

Lindsey Dolich Felt, PhD

Stanford University – Program in Writing and Rhetoric

Break Activities

- ▶ Breakout rooms
- ▶ Attendance sheet
- ▶ Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message
- ▶ Web-surf
- ▶ Respond to email
- ▶ Talk with classmates
- ▶ Reflect on what was presented in class



Short Break

