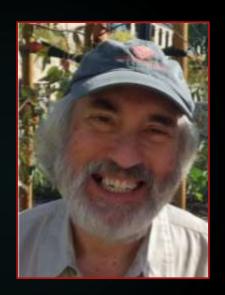
January 16, 2020

Bridging the Gap between Consumers and Products in Rehabilitation Medicine - Deborah E. Kenney, MS, OTR/L

## ENGR110/210 Perspectives in Assistive Technology



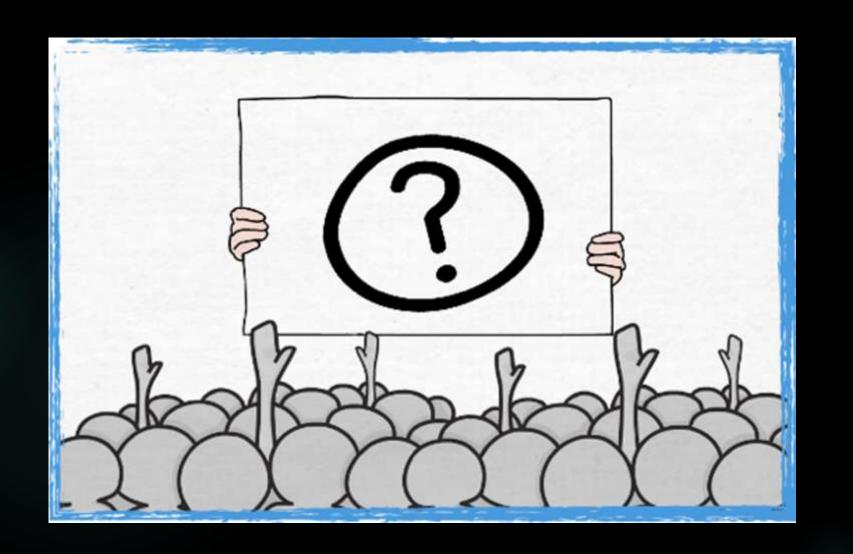
David L. Jaffe, MS
Instructor

14
Years



## Questions?







### Event at Magical Bridge Playground





Saturday: Noon to 2pm - Mitchell Park, Palo Alto

# Attendance Sheet, Evaluation Form, and Meet with Dave Signup

#### For all students:

- Sign Attendance Sheet important to verify your attendance
- Sign up to meet with Dave for lecture makeup and Individual Project approval

#### For everyone:

Fill out Class Session Evaluation Form

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Lecture 01x:	Course Overview & I	ntroduction to	Assistive Tec	tusology - Des	til L. Jathe, M	13.
Are yo	un enrolled student?	☐ - Yes	III - No			
The purpose of	this questionnaire is to	help the teach	ensors most get	today's class	espire. Plan	on rate the following leasure:
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Date & Time	Enter Tearn Name: & Specify 13 release Sessible
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Meeting - 8:30 tury - 111:30 tury	
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#### Miscellaneous



- Use a pen to fill out evaluation forms
- Weblinks and photos linked from lecture webpages
- Meet with Dave Signup Sheet
  - Individual project approval
  - Project updates
- Microphone used with camcorder





#### Engineering Design Process

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- Understand the problem
  - ▶ Interview the user / project suggestor
  - Realize that the user / suggestor may not have all the answers
  - ▶ Research what has already been done: articles, research, and products
  - ▶ Consult with experts
  - ▶ Determine why current devices haven't adequately solved the problem
  - Survey technology
- Determine the need (a judgment)
- Brainstorm many possible design concepts
- Select top concepts
- ► Fabricate, test, analyze, redesign, quickly repeat
- Work closely with user / suggestor in testing phase
- Report and demonstrate your results
- ▶ Reflect on your project experience

#### Work with Diligence

- ▶ Time is your team's most precious resource
- ▶ 7 weeks of class left to work on your projects
- Mid-term team presentations Tue of Week 6
- ► Get your PRL Safety Training & Shop Pass





#### Discussion Topic Preferences Results



- 33 Assistive Robotics Robotic technology benefitting people with disabilities and older adults
- 28 In the News
- 24 Ten Commandments of Making Adam Savage's Maker Faire video
- 23 Ethical / Moral Dilemmas Related to Disability
- 22 Product Pricing
- 21 Overview of Accessibility How this design feature relates to products, with many examples
- 21 The Upside of Failure Learning from prototypes that didn't work
- 16 Vintage Assistive Technology Products and devices from the past
- 16 Video Theatre Watch and discuss videos of new products and prototypes
- 14 Who is Disabled? Making a determination with limited information
- 10 Innovative Marketing Metrics How we use words to measure and advertise
- 7 Famous people with disabilities Focus on TV characters

### Discussion Topic Preferences Results



#### Student Suggestions:

- Past student projects
- Low resource accessibility projects
- Description of disabilities in media / television
- Games / entertainment

#### Social Model Animation





<u>Play</u> <u>video</u>

#### Tuesday, January 21st







Perspectives of Stanford Students with a Disability

Benjamin S. Woodford, Sylvia Colt-Lacayo, Gene Sung-Ho Kim

## Today





Bridging the Gap between Consumers and Products in Rehabilitation Medicine

Deborah E. Kenney, MS, OTR/L
Stanford University
VA Palo Alto Health Care System
Foothill College

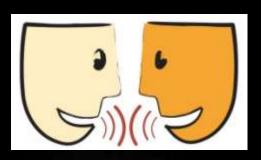
#### Short Break







#### Break Activities







- 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







