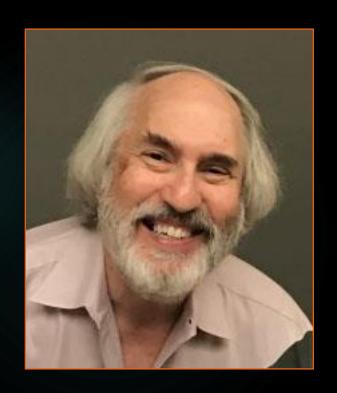
January 13, 2022 Bridging the Gap between Consumers and Products in Rehabilitation Medicine

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ENGR110/210 Perspectives in Assistive Technology

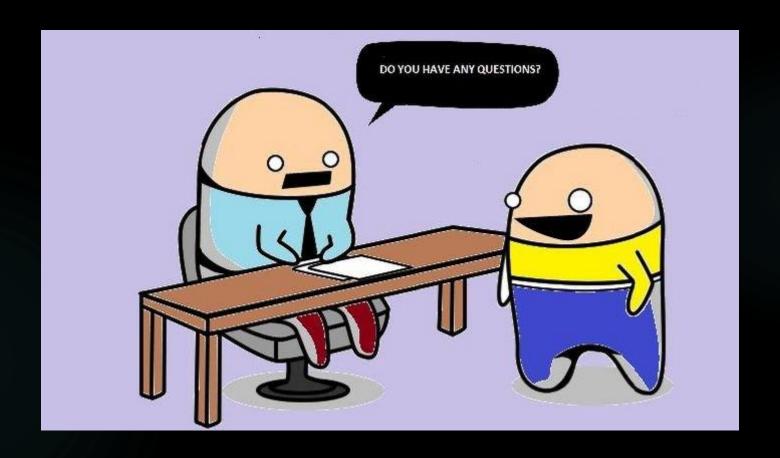


David L. Jaffe, MS
Instructor

16 Years

Do You Have Any Questions?





Apologies



Busy time dealing with newly enrolled and dropped students



Haven't yet dealt with sending missed lecture make-up information





Positives



Great to meet students to offer advice on their projects



▶ Looking forward to 3D instruction





Attendance Sheet, Evaluation Form, and Meet with Dave or Bennett Signup

For all students:

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

For everyone:

 Fill out Class Session Evaluation Form - this provides feedback to guest lecturer





Benefits of meeting with Dave

Original Motion Picture Soundtrack

Music Composed and Conducted by JOHN DEBNEY

- Make up missed lectures
- Gain valuable perspectives on your project
- Optimize your course and project experience
- My fortune cookie today reads: "Many seek you out for insightful advice"

Pre-lecture Discussion Topics



I will publish the results once I get more responses

Select all topics of interest	Hand in this form
☐ - Overview of Accessibility - How this design feature relates to product	ts, with many examples
☐ - Ethical / Moral Dilemmas Related to Disability	
$oldsymbol{\square}$ - Assistive Robotics - Robotic technology benefitting people with disab	oilities and older adults
☐ - In the News - New Assistive Technology products and research	
oxdot - Vintage Assistive Technology - Products and devices from the past	
☐ - Ten Commandments of Making - Adam Savage's Maker Faire video	
☐ - The Upside of Failure - Learning from prototypes that didn't work	
🗖 - Who is <u>Disabled?</u> - Making a determination with limited information	
$oldsymbol{\square}$ - Video Theatre - Watch and discuss videos of new products and proto	types
🗖 - Innovative Marketing Metrics - How we use words to measure and a	dvert <mark>i</mark> se
☐ - Famous people with disabilities - Focus on TV characters	
☐ - Students' Choice - Class determines topic - specify	

Deliverables



- ► For students working on Individual Projects
 - ▶ No mid-term presentations
 - ▶ No mid-term reports
- ▶ For students working on either Individual or Team Projects
 - Weekly meetings with Bennett or Dave / email updates project progress reports (alternate weeks)
 - ► End-of-term presentations
 - ► End-of-term reports
 - ▶ Individual Reflection

Work with Diligence

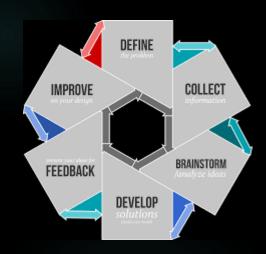
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- ▶ Time is your team's most precious resource
- 6.5 weeks of class left to work on your projects
- ▶ Mid-term presentations in 3.5 weeks!





Formed Student Team Projects



Recently formed Teams / Projects:

- Accessible and Inclusive Playground Attractions (2 teams)
- Dog Feeding Aid for Danny and Korey
- Ski Pole Project for Jorge
- Wearable Storage Pack for Danny
- Belt Buckle Project for Danny
- Prosthetics Project with Mary Cooper



How we judge others

Service Servic

- race
- religion
- gender
- gender identity
- skin color
- appearance glasses, hair style
- clothing & shoes
- anatomy height, weight, nose, eye color
- university attended
- year in school
- major
- political affiliation
- sport team fan

- disability
- age
- speech / accent
- medical status
- immigration status
- employment status
- fame / notoriety
- criminal record
- driving record
- place of residence
- athleticism
- record of achievement, intelligence
- material possessions car, house, phone
- vaccination status

The course instructor judges your project effort including presentations and reports

Dr Martin Luther King Jr.







How might the teachings of Dr Martin Luther King Jr. relate to people with disabilities and older adults and Assistive Technology?

"I have a dream that my four little children will one day live in a nation where they will not be judged by the color of their skin but by the content of their character."





Dr Martin Luther King Jr.





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How might the teachings of Dr Martin Luther King Jr. relate to people with disabilities and older adults and Assistive Technology?

"I have a dream that my four little children will one day live in a nation where they will not be judged by the color of their skin but by the content of their character."

Disability and advanced age do not represent weaknesses of character.





Product Pricing





Product pricing includes much more than cost of materials

Product Pricing



- One Time Costs Manufacturing equipment and equipment leases, furniture, fixtures, computers, phones, etc
- Recurring Costs Property and office rent, salaries (labor) / wages / commissions, utilities (electricity, internet, water, garbage, etc)
- Product-related Costs Product research, prototyping, testing, accounting, shipping, parts, profit, advertising (printing), packaging, vehicles
- Business-related Costs Loan repayments, inventory, financing costs, damaged merchandise, operating and legal expenses, overhead, theft, insurance, membership dues, market research, advertising and promotion, office supplies and equipment, travel, recruiting
- Production-related Costs Economies of scale, automation, mass production techniques
- Scale-related Costs Retail price falls with number of units manufactured & sold

Questions?







Tuesday, January 18th

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Stanford Students and Faculty with a Disability















Cricket Bidleman

Mary Cooper

Tilly Griffiths

Gene Kim

Kevin Mintz

Bhavya Shah

Erik Sibley

Today

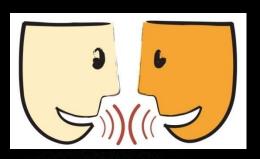




Bridging the Gap between Consumers and Products in Rehabilitation Medicine

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

Break Activities





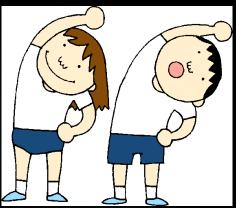


- ▶ Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message
- Web-surf
- Respond to email
- ▶ Talk with classmates
- Reflect on what was presented in class













Short Break





