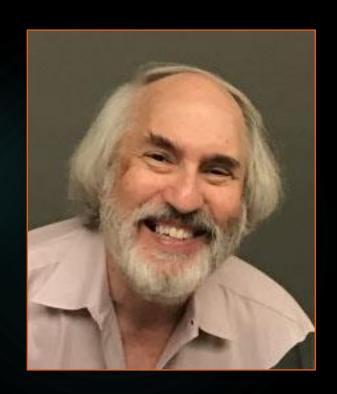
January 19, 2023 Bridging the Gap between Consumers and Products in Rehabilitation Medicine

and the state of t

ENGR110/210 Perspectives in Assistive Technology

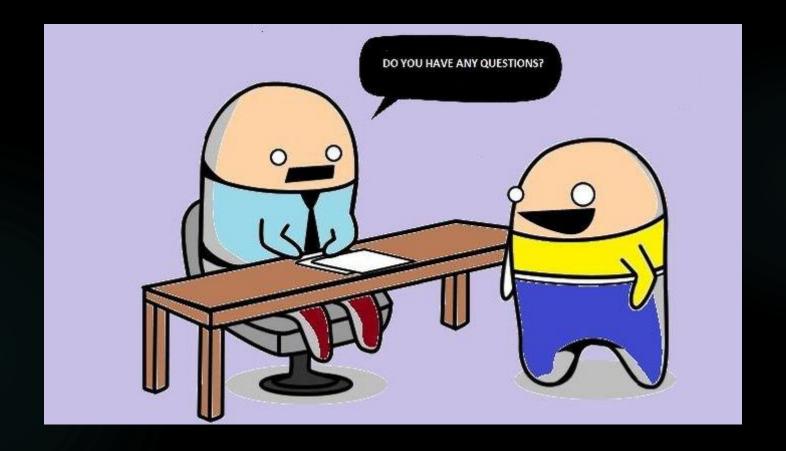


David L. Jaffe, MS
Instructor

17 Years

Do You Have Any Questions?





Miscellaneous



Busy time dealing with newly enrolled and dropped students and team formation / project selection



- Great to meet students to offer advice on their projects
- ▶ Please make up missed lecture sessions
- Client vs User vs PwD vs Project Suggestor
- ▶ Yes, The Beatles are a Classic Rock Band







Need - Two Perspectives



- Gayle Human needs
- Dave What information and understanding is required to determine what is needed to address a problem / challenge

Requirements, aspirations, desires – Needs

Independence

Self-actualization

Desire to become the most that one can be

Esteem

Respect, self-esteem, status, recognition, strength, freedom

Love and belonging

Friendship, intimacy, family, sense of connection

Safety needs

Personal security, employment, resources, health, property

Physiological needs

Air, water, food, shelter, sleep, clothing, reproduction

https://www.simplypsychology.org/maslow.html

Attendance Sheet, Evaluation Form, and Meet with Dave or Ayano 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:

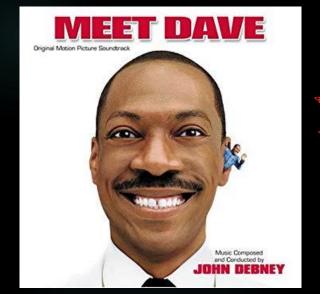
 Fill out Class Session Evaluation Form - this provides feedback to guest lecturer







Benefits of meeting with Dave



- 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"





I will publish the results once I get responses from the Form to be sent out in Week 2 in Review

Select all topics of interest	Hand in this form
☐ - Overview of Accessibility - How this design feature relates to products	, with many examples
☐ - Ethical / Moral Dilemmas Related to Disability	
$oldsymbol{\square}$ - Assistive Robotics - Robotic technology benefitting people with disabil	lities and older adults
☐ - In the News - New Assistive Technology products and research	
🗖 - 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 protot	ypes
🗖 - Innovative Marketing Metrics - How we use words to measure and ad-	vertise
🗖 - 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 or reports
 - ▶ Select a project now, start working on it now
- ▶ For students working on either Individual or Team Projects
 - Weekly meetings with Ayano or Dave / email updates project progress reports (alternate weeks)
 - ► End-of-term presentations
 - ► End-of-term reports
 - Individual Reflection

Work with Diligence

The standard of the standard o

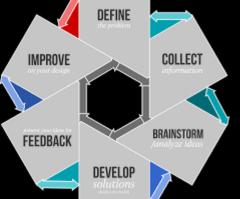
- ▶ Time is your team's most precious resource
- 6.5 weeks of class left to work on your projects
- ▶ Mid-term presentations in 3.5 weeks!





Formed Student Team Projects





Formed Teams / Chosen Projects:

- Accessible and Inclusive Playground Attractions (2 teams)
- Aesthetic Prosthetic Leg Project
- iPhone Project with Danny
- Water Bowl for Danny's Service Dog Korey
- Communication Aid for Nathan
- Leash Project for Danny and Korey
- Mobile Laptop and iPad Computer Support for Abby
- Bass Reduction Project

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.







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 24th

Service Servic

Stanford Students and Faculty with a Disability











Ari Gabriel
Jeff Butler
Allegra Hosford Scheirer
Mary Cooper
Bhavya Shah

Today





Bridging the Gap between Consumers and Products in Rehabilitation Medicine

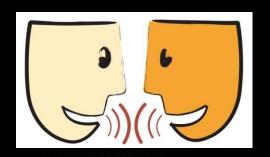
Deborah E. Kenney, MS, OTR/L

Stanford University

VA Palo Alto Health Care System

Foothill College

Break Activities





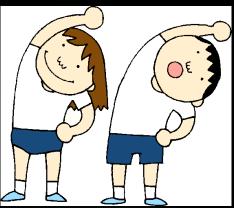


- Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message
- Web-surf
- Respond to email
- ▶ Talk with classmates
- Reflect on what was presented in class













Short Break





