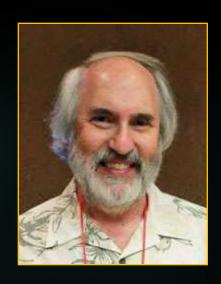
March 7, 2019 Wheelchair Fabrication in Developing Countries

ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS Instructor



Tuesday's Film Screening





A Day with Danny 2015 - 11:32

Please email any comments to me - I will forward them to the film maker.



Fixed: The Science / Fiction of Human Enhancement 2014 - 61:00

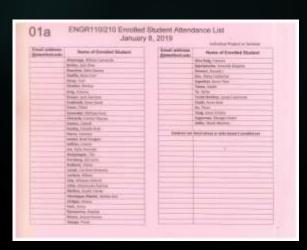
Attendance Sheet, Evaluation Form, and Meet with Dave Signup

For all students:

- Attendance Sheet
- Meet with Dave signup

For everyone:

Class Session Evaluation Form



Use a pen with a legible foot	Perspectives in Assistive Technology - 2019 Class Session Evaluation Form
Lecture 91a Co	user Overview & Introduction to Assistive Technology - Deviat L. Jaffe
	annoted student? I 3 -Yes II 3 - No qualiformatics to help the feaching learn assess to bay 5 dawn bession. Please rate the following leaves.
O O O M ph sh en o O O O Ph	refer's overall presentation: specifying volume, understandable, ease of following concepts and universe, clarity of explanations, quality of PowerPost effects use of supporting mode in foods and sentation also [56-best Taillanation - dagge procession, in inheritation and foscilipporting production and claric organization pages and management of a failude time, appoint into trap operationing and class pagement, provided good times with claric and determine state of a page of a pagement, provided programs, overaging, and determine state of a resolution content injust interest, reliable and of the broad stage of acceptance to the page information, appropriation work of datable and factorized acceptance overall value of prescribed materials.
	erts, questions, and suggestions, especially if you from populations of the lecture to be particularly 0 or 0. If you want a response and use the back of this form if you need more from
What one flum-did	ou hear, see, or team that was new, surprising, especially interesting, or provided a new perspective?
How much did you What is your currer How is your siless?	











Food & Drink Signup

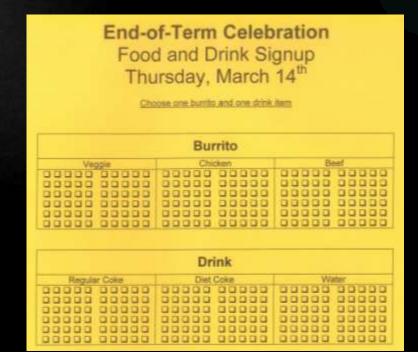


Food & Drink Signup













Week 9



- Finalize fabrication, perform user testing
- Focus on Tuesday's team presentation
- Project demonstrations next Thursday March 14th











Final Presentations - Tuesday

- Cover your entire quarter's effort
- ▶ Tell a complete story, but focus on what you have achieved since the mid-term
- Emphasize how your project addressed the problem
- ▶ 7 minutes, no demos, no audience questions
- Show your prototype in your slides point to features
- Email PowerPoint slides or url to Dave by noon Tuesday
- One video of prototype in use
 - ▶ Upload video to YouTube and include its link in your slides
- Be prepared to evaluate other teams' presentations
- Dress professionally





Dress Professionally

- ▶ No t-shirts, sweatshirts, hoodies
- ▶ No flip-flops, sandals
- ▶ No shorts, jeans, holes in pants
- ▶ No baseball or stocking caps



Mark Zuckerberg

"Each item of clothing makes a statement about who you are"

"Dress for the grade you want"



No Jacket Required

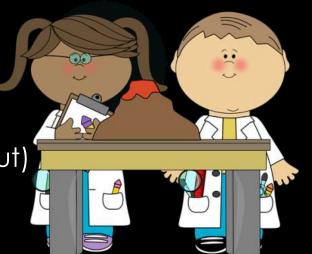
Perform Professionally

Starting now, you will be evaluated as a professional, no longer as a student



Project Demonstrations - Thursday

- Bring all prototypes to class
- Meet in classroom to fill out a course evaluation form
- Project demonstrations in classroom
- ▶ No posters or handouts informal "trade show" presentations
- Demonstrate prototype's functionality (make sure I check it out)
- Check out other teams' projects
- Burritos & drinks
- Community members attending
- Invite project suggestors, users, friends who contributed to your project's success
- Bring laptop to show additional videos and images of your process



Project Considerations

- Your prototype should be functional, but not necessarily ready for market
- Contingency plans if things don't work out
- Add a team or Stanford logo
- Never apologize for what you did or what you were not able to achieve
- ► Mention future plans
- ▶ Remember "Everything is a prototype"

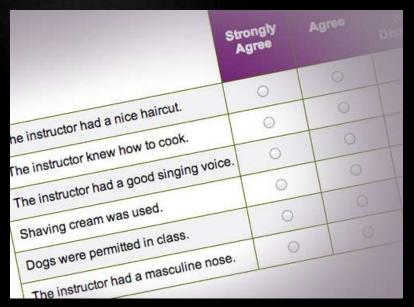




Course Evaluations

- Excellent: Poor.
- Dave's in-class evaluation on Thursday
- 2. Cardinal Course Student Survey
- 3. VPTL's evaluation online (on your own)







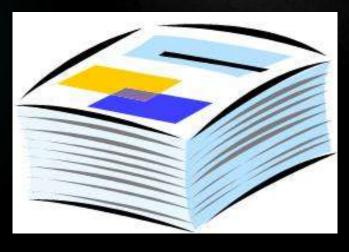
Final Report



- ▶ Cover your entire quarter's work
- Include material from mid-term report
- Consider mid-term report mark-ups
- ▶ Due week of March 18th









Individual Reflection



- ▶ How you felt about your course, project, user, team experience
- ▶ Due week of March 18th

We do not learn from experience... we learn from reflecting on experience.

- John Dewey





Tuesday, March 12th



End-of-term Student Team Project Presentations



- ► Elevator Pitch Elevator Button Pusher Project
- ▶ Buckle Up Service Dog Harness Buckle Project
- ► Travola Danny's Lap Tray Project
- ▶ Big Three Danny's Pick-up Project
- Kitty Kat Meow Zirpolo Hide-Away Lap Tray Project
- ► Tray-Iblazers Tray for Tony Project
- Abby's Assistants Grocery Shopping with Abby Project
- Magical Bridge Team Magical Bridge Playground Project: Caterpillar
- ▶ Mean Machine Wheelchair Cup & Phone Holder Project

Pre-Lecture Discussion Topics



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





Last Season of Big Bang Theory







Raj - Social anxiety disorder, selective mutism, and fear of spiders (arachnophobia)









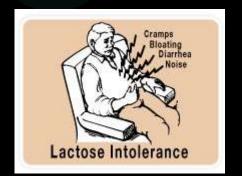
Marilu Henner

Sheldon - Eidetic memory, afraid of dogs (cynophobia) and birds (ornithophpobia), mild OCD, "a bit of a germaphobe" (mysophobia), autistic behaviors, but not crazy (his mother had him tested)









Leonard - Asthmatic and lactose intolerance







Howard - Severe peanut allergy and fear of going into space (astrophobia)







Penny - No last name!





Barry Kripke









Barry Kripke - Speech impediment (Rhotacism)





Mrs Wolowitz





Mrs Wolowitz - immensely overweight, neck size 43, facial hair, gout

Today





Wheelchair Fabrication in Developing Countries

Ralf Hotchkiss
Whirlwind Wheelchair International

Questions?





Break Activities



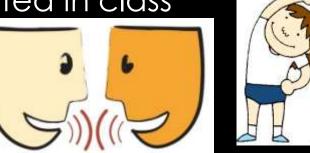


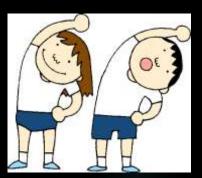


- ▶ Sign attendance sheet
- Grab a cookie
- ▶ Take a bio-break
- ▶ Text message, web-surf, email
- ▶ Talk with classmates
- Reflect on what was presented in class











Adjourn



class dismissed



Laptops Galore





Time for Questions?





End the class



