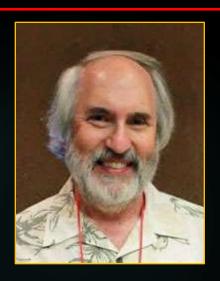
February 1, 2018 The Design and Control of Exoskeletons for Rehabilitation



ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS Instructor



Questions?







Your Favorite Classic Rock Artists / Bands



- AC/DC
- Aerosmith
- Beatles
- Bob Dylan
- Bruce Springsteen (2)
- Eagles
- Journey

- Pink Floyd
- Queen (2)
- Steely Dan
- The Smiths
- Tom Petty
- U2

My Favorite Classic Rock Artists / Bands



- Beach Boys
- Boston
- Byrds
- Carly Simon
- Chicago
- · Crosby, Stills, Nash, Young
- Doors
- Electric Light Orchestra
- Emerson, Lake, and Palmer

- Eric Clapton
- Fleetwood Mac
- Grateful Dead
- Heart
- Jackson Browne
- James Taylor
- Janis Joplin
- Jefferson Airplane
- Jethro Tull

- Jimi Hendrix
- Joni Mitchell
- Judy Collins
- Led Zeppelin
- Linda Ronstadt
- Mamas & Papas
- Moody Blues
- Pat Benatar
- Police

- Pretenders
- Rolling Stones
- Santana
- Simon & Garfunkel
- Steve Miller
- The Band
- Van Morrison
- Yes
- ZZ Top

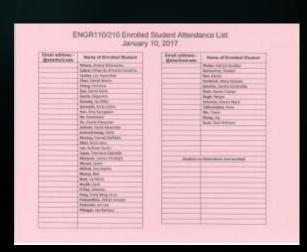
Attendance Sheet, Evaluation Form, and Meet with Dave Signup

For all students:

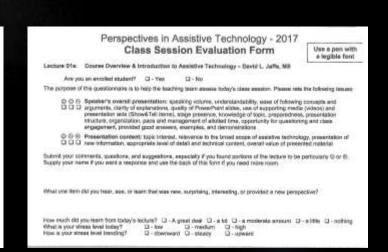
- Attendance Sheet
- Meet with Dave signup Teams or individual students

For everyone:

Class Session Evaluation Form















Team Projects



- Mid-term Team Project Presentations in 2 weeks Feb 15th
 - Show your prototypes
- Mid-term Team Project Reports due Feb 20th
- Your Shop Pass provides access to both PRL & Room 36

Tuesday, February 6th





From Idea to Market: Eatwell, Assistive Technology for Persons with Cognitive Impairments

Sha Yao Sha Design

Today





The Design and Control of Exoskeletons for Rehabilitation

Katherine Strausser, PhD Ekso Bionics - Senior Controls Engineer

Pre-lecture Discussion Topics



- 21 Assistive Robotics
- 18 Ethical / Moral Dilemmas
- 13 In the News
- 12 Ten Commandments of Making
- 12 Video Theatre
- 12 Marketing Terms
- 10 Overview of Accessibility
- 10 Vintage Assistive Technology
- 10 The Upside of Failure
- 8 Who is Disabled?
- 7 Famous people with disabilities

10 Commandments of Making

Adam Savage took a few minutes on Sunday, May 18th at the 2014 Maker Faire Bay Area to share what he feels are the "10 Commandments of Making". Braving the somewhat precarious elevated stage of the crowd favorite Life-Sized Mousetrap, Adam addressed the audience with bits of wisdom and jewels of experience. It was obvious from the laughter that many of these insights and observations struck close to home.



10 Commandments of Making





Here is the short version of the commandments according to Adam:

- 1. Make something
- 2. Make something useful
- 3. Start right now
- 4. Find a project
- 5. Ask for help, advice, and feedback
- 6. Share
- 7. Recognize that discouragement and failure is part of the project
- 8. Measure carefully
- 9. Make things for other people
- 10. Use more cooling fluid!



Questions?





Break Activities



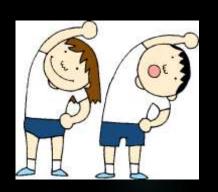




- ▶ Sign attendance sheet
- Grab a cookie
- Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message, web-surf, email
- ▶ Talk with classmates
- Reflect on what was presented in class









Adjourn



class dismissed



Laptops Galore





Time for Questions?





End the class



