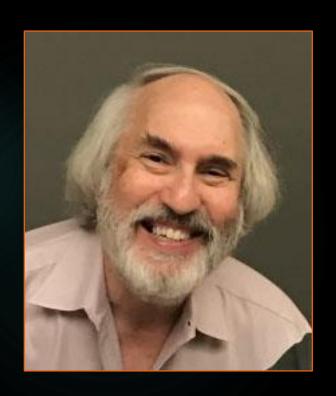
February 22, 2022 The Design and Control of Exoskeletons for Rehabilitation

The second of th

ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS
Instructor

16 Years

Questions, Comments, Suggestions, or Concerns?

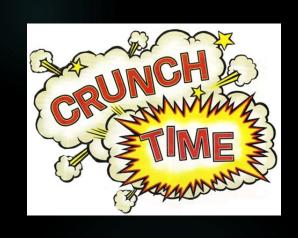






Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them before the end-of-term course evaluation.

Week 8



- It's project crunch time
- Brainstorm, Select, Prototype, Test, Analyze, Repeat, Report
- Contingency plan
- Submit progress reports, schedule progress meetings with Bennett or me - Final Week









Reminder - Work with Extreme Diligence

- Time is your most precious resource
- ▶ 14 days until End-of-term Project Presentations Tue, Mar 8th
- ▶ List remaining activities and assign responsibilities
- Prepare for end-of-term presentation







Students working on Individual Projects



- Project presentations:
 - Schedule for Week 9
 - Outside of class
 - By Zoom or in-person

Upcoming class sessions

- Designing Exoskeletons and Prosthetic Limbs that Enhance Human Performance (in classroom)
 - Steven H. Collins, PhD
 - Thu, Feb 24th



- Olenka Villarreal
- Tue, Mar 1st





- Wheelchair Fabrication in Developing Countries (by Zoom)
 - Ralf Hotchkiss
 - Thu, Mar 3rd



Week 10 Class Sessions

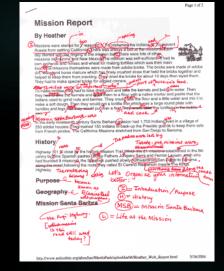
Mr Project

► Tue, Mar 8th End-of-Term Student Team Project Presentations

Thu, Mar 10th
Student Project Demonstrations + Burritos



Mid-term Report Markups



- Students are welcome to meet with me to discuss reports
- Some are comments, some are suggestions, some are corrections
- Some relate to syntax, spelling, grammar, format
- Reports should reflect a professional engineering style
- Not just for my viewing, provides practice writing professional journal articles and funding proposals
- An example for your future employer
- Reports and presentations are key professional communication skills that must be mastered



Other Items



RESNA Student Design Competition and Developers Forum

- Carpool drivers needed for Field Trip to Magic Bridge Playground on Tuesday, March 1st
- Driver and Passenger Signup Document

Tuesday, March 1st





Virtual Field Trip to the Magical Bridge Playground
Olenka Villarreal

Thursday





Designing Exoskeletons and Prosthetic Limbs that Enhance Human Performance

Steven H. Collins, PhD

Stanford University - Mechanical Engineering

Today



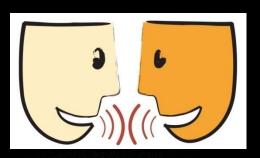


The Design and Control of Exoskeletons for Rehabilitation

Katherine Strausser, PhD

Ekso Bionics - Technical Lead, Exoskeletons

Break Activities



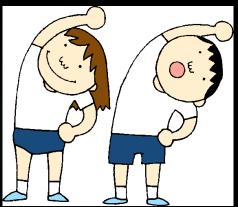


- Breakout rooms
- Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message
- Web-surf
- Respond to email
- ▶ Talk with classmates
- Reflect on what was presented in class













Short Break





