February 26, 2026

The Design and Control of Exoskeletons for Rehabilitation

ENGR110/210
Perspectives in Assistive Technology



Katherine Strausser, PhD

Ekso Bionics

Technical Lead Exoskeletons

Questions, Comments, Suggestions, or Concerns?





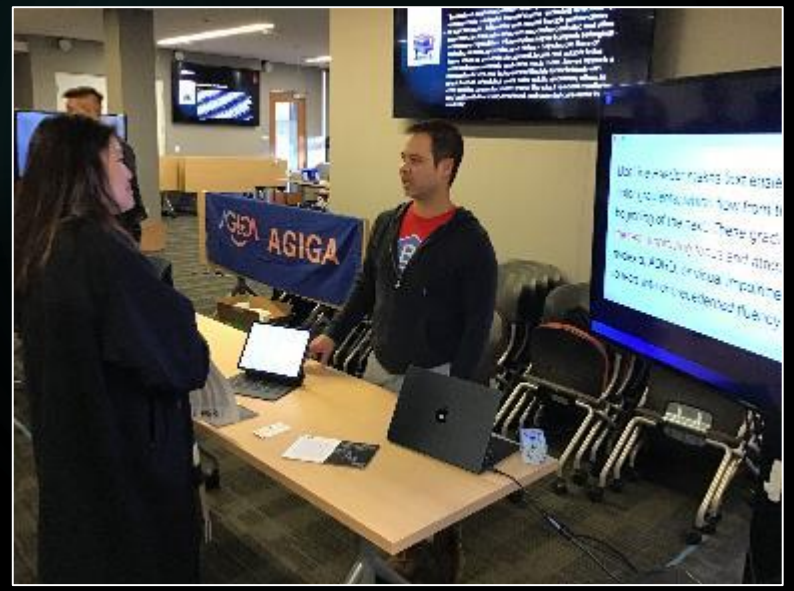
Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them.

Assistive Technology Faire













Students working on Team Projects

Project Activities



- Order parts
- Fabricate, test, analyze, redesign, refine your final prototype
- Continue to work with project suggestor - schedule final testing & video record results
- Continue to submit progress reports, schedule meetings with Tori or me
- Connect with me if you get stuck or need another perspective / opinion

Students working on Team Projects
Mid-term Reports



- Consider suggestions made by Tori and me
- Include “Next Steps” section
- Include “glamour” photo of prototype
- Assign someone on your team to assume responsibility for proofreading the entire document - making sure it is readable and “flows” from section to section.

Attendance & Missed Class Sessions



- Thanks for attending class sessions and making up missed ones.
- Please follow instructions to make up missed class sessions.
- Students taking the course for 1 credit unit are required to attend at least 15 class sessions.
- Students taking the course for 3 credit units are required to attend (or make up) all class sessions.
- **Making up missed class session will bolster your grade.**

Students working on Team Projects

Extra Credit

- Meet the Makers
- Wed, Mar 18th - 9:30 to 11:30am
- 1 Table (2 projects)
- First two teams who email me



Home Stretch - Work with Diligence

- Time is your team's most precious resource
- 12 days until End-of-term Team Project Presentations - Tue, Mar 10th
- Identify remaining activities and assign responsibilities
- Plan for successes and setbacks - have a contingency plan



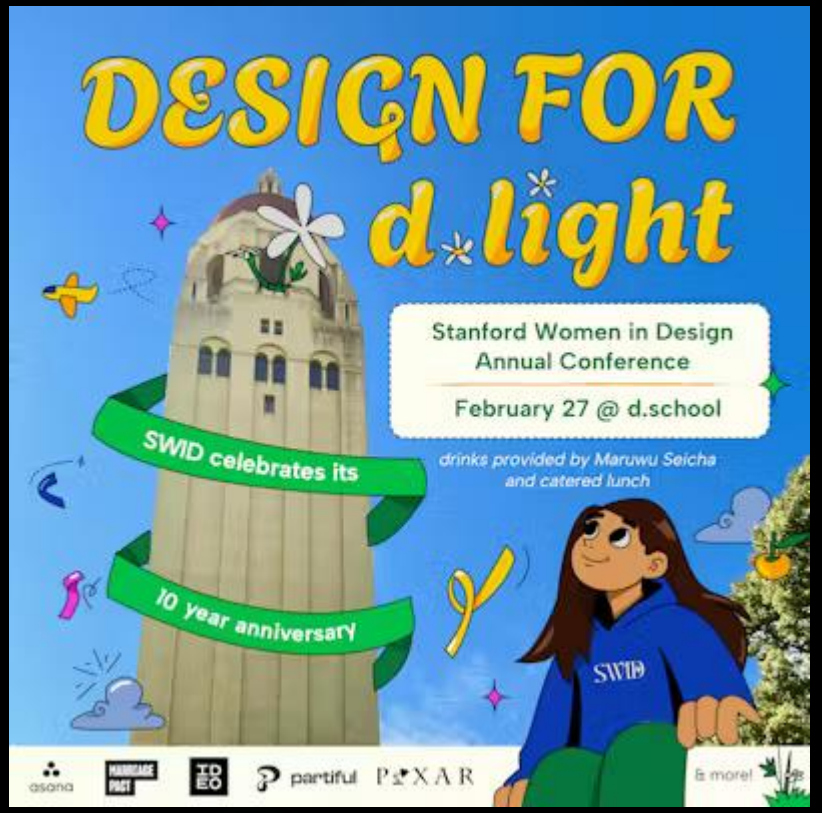


Upcoming Event

- Stanford Women in Design Annual Conference
  - Design for Delight
  - Fri, Feb 27th - 11:00am to 4:30pm
  - Peterson Building Atrium

- "This year's theme explores how designers and builders create joyful, emotionally resonant, and playful experiences across disciplines."

- Olenka Villarreal is one of the speakers.



Upcoming class sessions



- Video Theater
  - Tue, Mar 3rd
- Wheelchair Fabrication in Developing Countries
  - Ralf Hotchkiss
  - Thu, Mar 5th



Thursday, March 5th



Wheelchair Fabrication in Developing Countries

Ralf Hotchkiss

Today

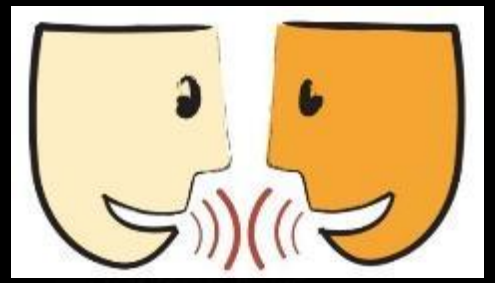


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Break Activities



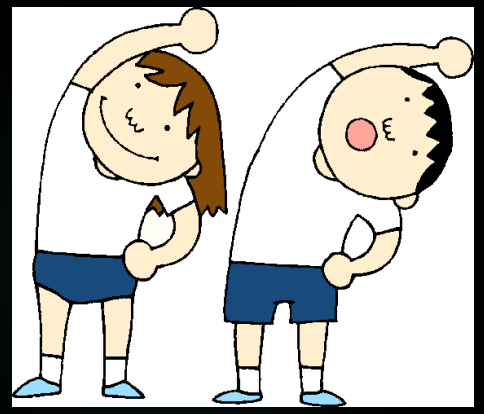




- Breakout rooms
- Attendance sheet
- Stand up and stretch
- Take a bio-break
- Text message
- Web-surf
- Respond to email
- Talk with classmates
- Reflect on what was presented in class









Short Break



