

February 20, 2024
Assistive Technology for Persons with Spinal Cord Injury



ENGR110/210

Perspectives in Assistive Technology



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Director of Clinical Research
SCI Center at VA Palo Alto Health Care System
Physical Therapist
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Questions, Comments, Suggestions, or Concerns?

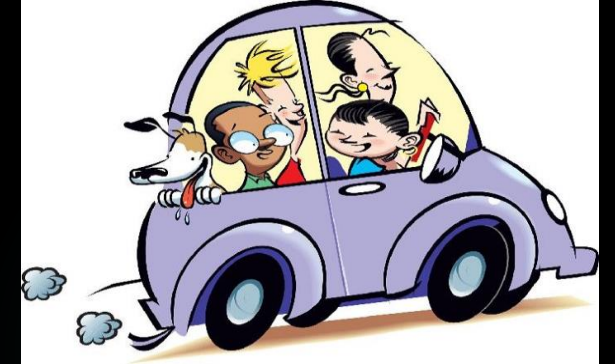


Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them.

Upcoming class sessions

- ▶ **Assistive Technology Faire**

- Six Vendors
- Thu, Feb 22nd



- ▶ **Designing Beyond the Norm to Meet the Needs of All People**

- Peter W. Axelson, MSME, ATP, RET
- Tue, Feb 27th

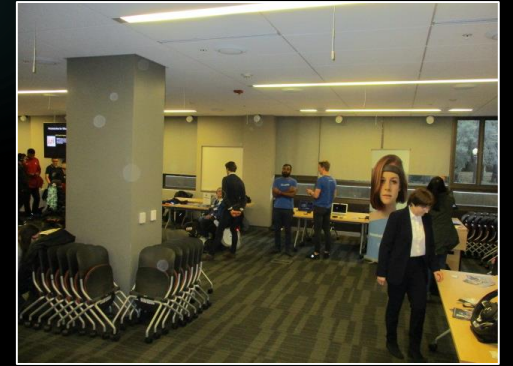
- ▶ **From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments**

- Sha Yao, MFA
- Thu, Feb 29th



Assistive Technology Faire

- ▶ Six vendors of products and services
- ▶ Tradeshow environment
- ▶ Check out all vendors in classroom
- ▶ Report on the coolest thing you saw



Thursday, February 22nd



Assistive Technology Faire

Interactive Control of a Virtual Prosthetic Arm

BeeLine Reader

Silicon Valley Independent Living Center

DUG: A Communication Device to Prevent People from Distracting Service Dogs

911Finder Cellular Watch

TINA



Home Stretch - Work with Diligence



- ▶ Time is your most precious resource
- ▶ 3 weeks until End-of-term Project Presentations - Tue, Mar 12th
- ▶ Identify remaining activities and assign responsibilities



Suggestions for End-of-term



- ▶ Strive to be more professional with slides & reports
- ▶ Work equally as a team
- ▶ Make up missed lectures



**Missed your
lecture?**

**Catch up by watching our
recorded videos**



Students working on Team Projects

Mid-term Report



- ▶ **Due TODAY!**
- ▶ **Goal: short, concise, well-written, and highly readable report with few grammatical and spelling errors.**
- ▶ Mid-term report - 10 to 15 pages of narrative - text and images
- ▶ Suggested format different for fabrication vs non-fabrication projects
- ▶ Include sketches and photos
- ▶ Report Writing Tips documents **suggested** report features



Mid-term Reports Due Today



- ▶ Please note that a **longer** report is not necessarily better. I would much rather read a **shorter, concise, and well-written** report than a longer, poorly written report with grammatical and spelling errors.
- ▶ If your team needs additional time to complete, proofread, and refine your report, you can **request a one-day extension**.
- ▶ I'm looking forward to reading your **double-excellent** report.

Students working on Team Projects

Project Activities



- ▶ Continue to work with project suggestor
- ▶ Fabricate, test, analyze, redesign, refine prototypes
- ▶ Submit progress reports, schedule meetings with Henry or me

Student working on Individual Projects



- ▶ **Continue to meet with me to discuss project progress**
- ▶ **Send progress reports**
- ▶ Contact me if you have questions about your project direction
- ▶ Project presentations:
 - ▶ Week 9
 - ▶ Outside of class
 - ▶ In-person

Mid-term Evaluation Comments



- ▶ Good comments, bad comments, how to evaluate?
- ▶ Conflicting comments on content, presentation, or process
- ▶ There may be just one comment on an issue, either positive or negative
- ▶ Everyone has a different perspective, opinion, and level of understanding
- ▶ Not everyone is “right” due to emphasis, misunderstandings, bias, and subjectivity
- ▶ Some evaluators may pick up on a specific detail, not on your major point, so emphasize major points on a separate slide
- ▶ **Make you own honest judgment on comments that could be helpful**
- ▶ Same goes for your mid-term report markup
- ▶ What do the scores mean with respect to your grade?

*I can't do what ten
people tell me to do –
Otis Redding*

Team Projects Grading



Deliverable

%

→ Mid-term Presentation

10

Mid-term Report

10

End-of-term Report

20

End-of-term Presentation

20

Prototype Design & Functionality

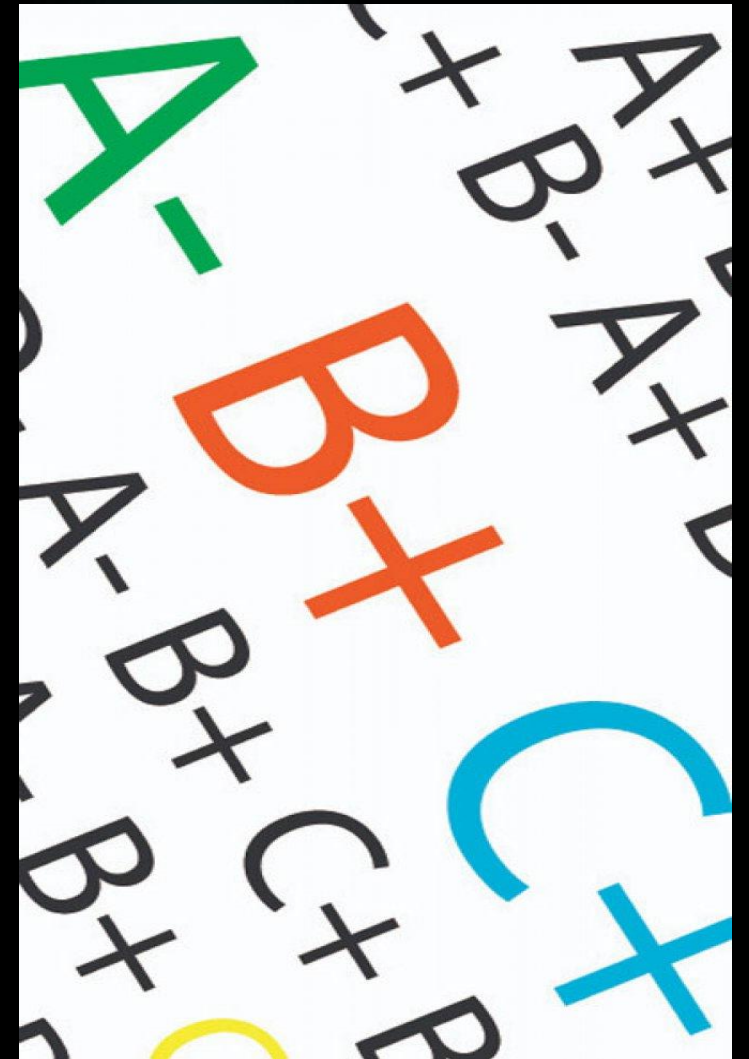
20

Project Suggestor Feedback

10

Participation

10



Participation includes attending class sessions, meeting with instructor, actively listening, posing questions to the guest speakers and the course instructor, engaging in class discussions, verbalizing thoughts and analyses, and submitting Weekly Project Reports or meeting with the course instructor.

Today



Assistive Technology for Persons with Spinal Cord Injury

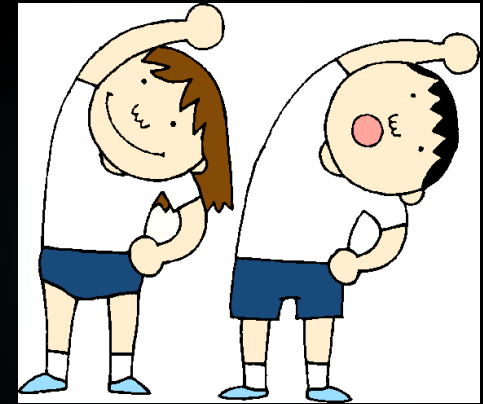
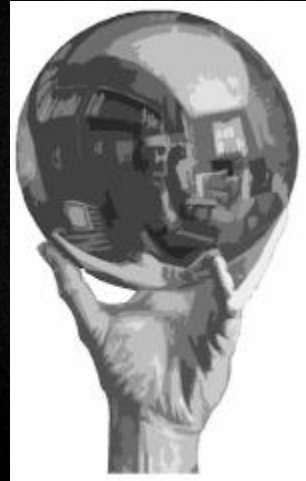
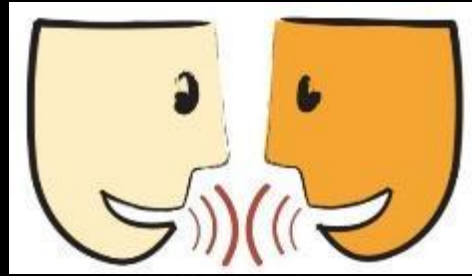
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- (1) Director of Clinical Research
- (2) Physical Therapist

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Activities

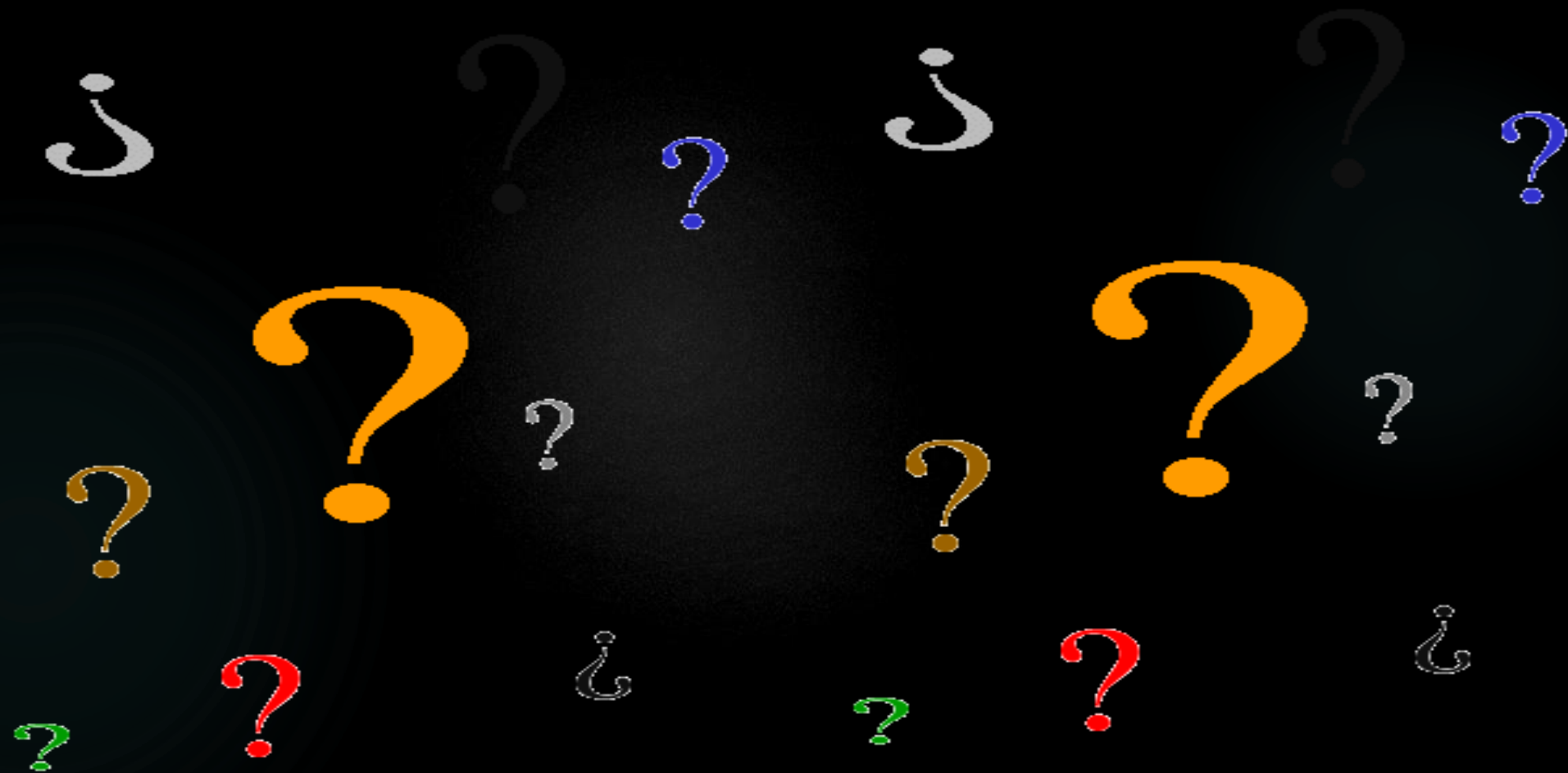
- ▶ Attendance Sheet
- ▶ Evaluation Form
- ▶ Stand up and stretch
- ▶ Take a bio-break
- ▶ Text message
- ▶ Web-surf
- ▶ Respond to email
- ▶ Talk with classmates
- ▶ Reflect on what was presented in class



Short Break

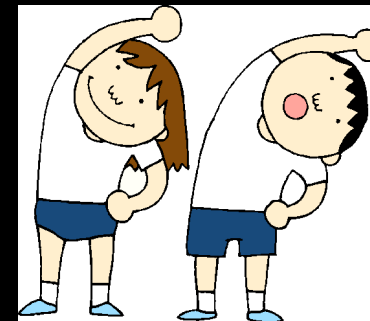
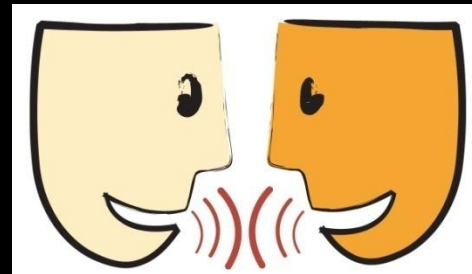


Questions?



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

