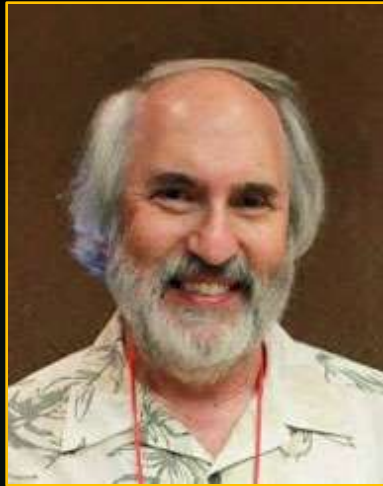


February 14, 2019  
Mid-term Student Team Project Presentations



# ENGR110/210

## Perspectives in Assistive Technology



David L. Jaffe, MS  
Instructor



# Questions?





# Mid-term Presentation Scoring Sheet



## Mid-Term Student Team Project Presentations

### ENGR110/210: Perspectives in Assistive Technology

Please fill out with a pen.

Thursday, February 14, 2019

Please write legibly.

I am:  - a student,  - faculty member,  - community member,  - other: \_\_\_\_\_

Thank you for attending this year's mid-term student team project presentations for ENGR110/210. Student teams have been addressing problems experienced by individuals with disabilities or older adults and have been working to understand the problem, brainstorm, design, fabricate, and test a prototype device or software to meet an identified challenge. The teaching team would appreciate your assistance in judging the quality of the students' project and presentation efforts. Please read the criteria below and submit your scores, suggestions, and comments. Use a pen and print legibly as your comments will be disseminated to the project teams.

- The student teams' presentations should include the following elements:

0. Introduction to project and team members
1. Background, problem statement, and magnitude of problem
2. Interviews with project suggestors and users who would benefit from a solution
3. Identification and determination of need
4. Research on existing solutions and discussion of their limitations
5. Brainstorm activities: description and visualization of design concepts considered and prototypes built
6. Description of top designs: technical feasibility, engineering difficulty, estimated cost, user acceptance, functionality, performance, safety considerations, tradeoffs, etc
7. Current project activities and status, prototypes built, and challenges encountered
8. Plans for the remainder of the quarter

- Judge the overall quality of the presentation, design process, prototyped concepts in the following areas:

Delivery: (How the team presented) - professionalism, enthusiasm, conviction, confidence, energy, volume

Process: (How the team addressed the problem) - problem information, background research, design concepts brainstormed & prototyped, testing & evaluation

Presentation: (What the team presented) - clarity, organization, and completeness of the information presented

Design: (What the team produced) - creativity, originality, functionality of the design concept(s) and the likelihood it will meet the user's needs

Overall: (Overall score) - combined impression of presentation and project

- Please use these metrics: ⑤ = Excellent (Top 10%), ④ = Very Good (Top 25%), ③ = Good (Middle), ② = Fair (Bottom 25%), ① = Poor (Bottom 10%)

- Team Presentation order: **Team Name** - Project Name

1. **Mean Machine** - WHILL Recharging Project
2. **Magical Bridge Team** - Magical Bridge Playground Project
3. **Abby's Assistants** - WHILL Grocery Shopping Project
4. **Tray-Blazers** - Lap Extender Project
5. **Kitty Kat Meow** - Hide-Away Lap Tray Project
6. **Big Three** - Pick-up Project
7. **Travola** - Lap Tray Project
8. **Buckle Up** - Harness Project
9. **Elevator Pitch** - Elevator Button Pusher Project

- Please provide your comments and suggestions about the course, this mid-term presentation, and the overall evaluation process. Thank you for your participation!

Everyone is welcome to evaluate the teams' presentations

Do not score your team's presentation

Please use a pen that doesn't bleed through the paper and has a legible font



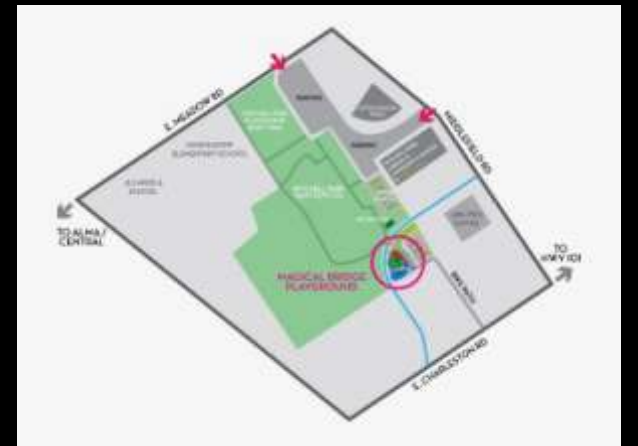
# Thursday, February 21st

*Where Everyone Can Play!*



Field trip to Magical Bridge Playground

Olenka Villarreal & Jay Gluckman



# Tuesday, February 19th



Designing Beyond the Norm to Meet the Needs of All People

Peter W. Axelson, MSME, ATP, RET

Beneficial Designs - Director of Research & Development

# Thursday, February 21st



## Mid-term Reports Due

Read Instructions and Tips:

- ▶ [Mid-term Assignment Webpage](#)
- ▶ [Suggested section titles](#)
- ▶ [Report writing tips for each section](#)
  - ▶ [Scanning sketches](#)
  - ▶ [Adding captions](#)
  - ▶ Adding bibliographic references



# Today



## Mid-term Student Team Project Presentations



- ▶ **Mean Machine** - WHILL Recharging Project
- ▶ **Magical Bridge Team** - Magical Bridge Playground Project
- ▶ **Abby's Assistants** - WHILL Grocery Shopping Project
- ▶ **Tray-Iblazers** - Lap Extender Project
- ▶ **Kitty Kat Meow** - Hide-Away Lap Tray Project
- ▶ **Big Three** - Pick-up Project
- ▶ **Travola** - Lap Tray Project
- ▶ **Buckle Up** - Harness Project
- ▶ **Elevator Pitch** - Elevator Button Pusher Project



# Team Project Presentations

- ▶ Mid-term Team Project Presentations
  - ▶ 7 minute presentations:
    - ▶ Tell the entire story
    - ▶ Be concise
    - ▶ Employ descriptive photos
    - ▶ Avoid every last detail
    - ▶ Show your prototypes as slide images
    - ▶ Practice for timing, where to stand, etc
    - ▶ Use slide presenter as laser pointer and to advance slides
  - ▶ Mid-term Team Project Reports due Thu, Feb 21st



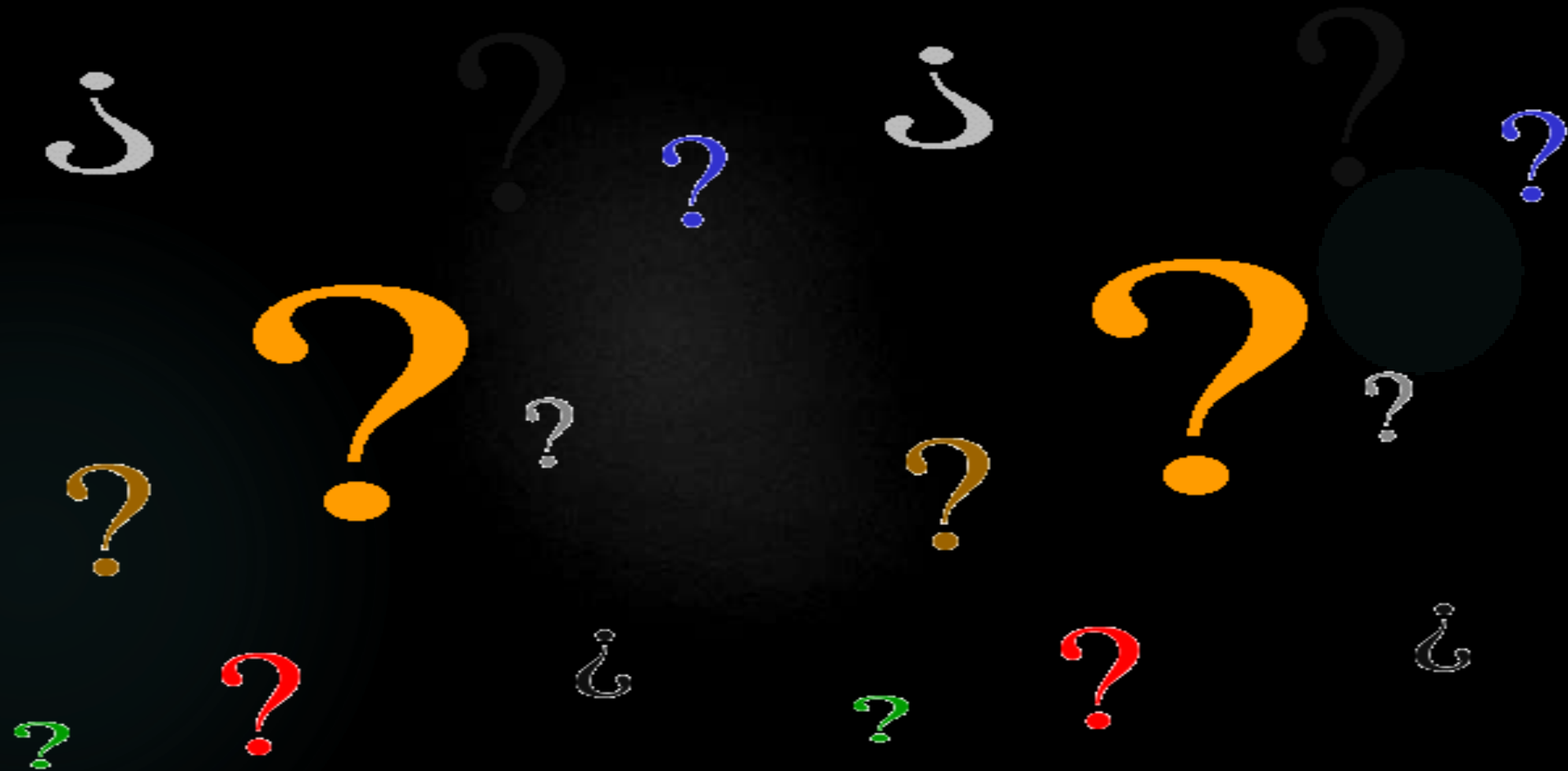
# Team Project Presentations



Student project teams have selected a challenge or problem experienced by individuals with disabilities or older adults and have been working to understand, research, brainstorm, design, fabricate, and test prototype devices or software to meet an identified need. Each team will now present their mid-term project progress.

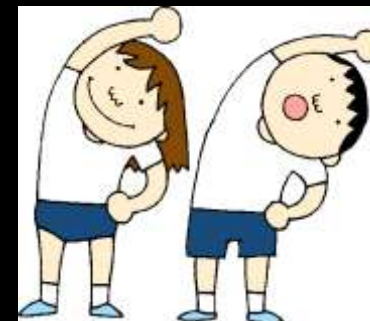
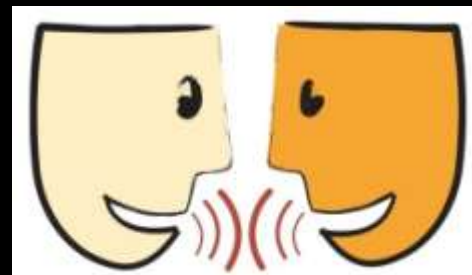
**Sorry, there will not be time for questions.**

# 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

