February 11, 2020 Mid-term Student Team Project Presentations

### ENGR110/210 Perspectives in Assistive Technology



### David L. Jaffe, MS Instructor



### Questions?









# Attendance Sheet, Meet with Dave Signup

For all students:

- Attendance Sheet
- Meet with Dave signup
- For everyone:
  - Mid-term Presentation Evaluation Form

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#### Sign Up to Meet with Dave

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have been addressing problems expl to understand the problem, brannton identified challenge. The teaching tea project and presentation efforts. Place	id-tern student learn project presentats energiest by includias with classifilia- rin, design, fabricate, and fest a princing en would appreciate your addistance in nire read the oriteria below and submit y ly da your commants with be discamman	or older withits and have been worker, a device or antiware to meet an adging the quality of the students' surscores, suggestions, and
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Mid-Term Student Team Project Presentations

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nationality, performance, safety considerations, tradeoffs, etc. Current project activities and status, prototypes built, and challenges encountered

Plans for the remainder of the guarter









Attendance List

Meet with Dave

# Mid-term Presentation Evaluation Form

#### Mid-Term Student Team Project Presentations ENGR110/210: Perspectives in Assistive Technology

Please fill out with a pen. Tuesday, February 11, 2020 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: 
 S = Excellent
 Top 10%
 Top 25%
 Middle
 Bottom 25%
 Bottom 10%

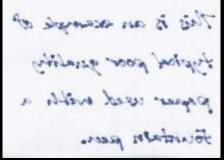
- Team Presentation order:
  - 1. Team Unrestrained Wheelchair restraint for Danny
  - 2. Team Laprador Lap tray for Abby
  - 3. The Last Team with No Name Project with the Magical Bridge Playground
  - 4. The Second Team with No Name Photography access for Paul
  - 5. If There's a WHILL, There's a Way WHILL visibility project with Abby
  - 6. Team MDM Project with the Magical Bridge Playground
  - 7. The Seventh Team with No Name Arm rest project with Nick
  - 8. Uno, Dos, Trays Lap tray for Ben
  - 9. The Banana Slugs TravelScoot camping project with Abby

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



# Upcoming class sessions

- Improving Home Environments for Older Adults - Thu, Feb 13<sup>th</sup>
- From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments - Tue, Feb 18<sup>th</sup>
- Assistive Technology Faire Thu, Feb 20<sup>th</sup>





# Tuesday, February 18th

### 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

- Team Unrestrained Wheelchair restraint for Danny
- Team Laprador Lap tray for Abby
- Team Harmony Project with the Magical Bridge Playground
- Paultography Photography access for Paul
- Where There's a WHILL, There's a Way WHILL visibility project with Abby
- Team MDM Project with the Magical Bridge Playground
- Stuffed Animals Arm rest project with Nick
- Uno, Dos, Trays Lap tray for Ben
- The Banana Slugs TravelScoot camping project with Abby



# 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 Tue, Feb 18th



### 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 challenge. Each team will now present their mid-term project progress.

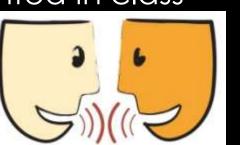
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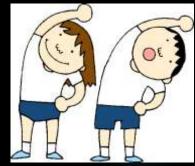


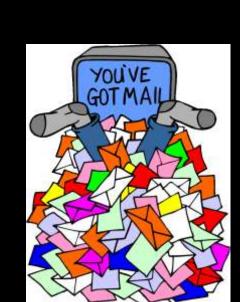
# Break Activities



- 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



# ¿lass dismissed

## Laptops Galore





### Time for Questions?





## End the class

