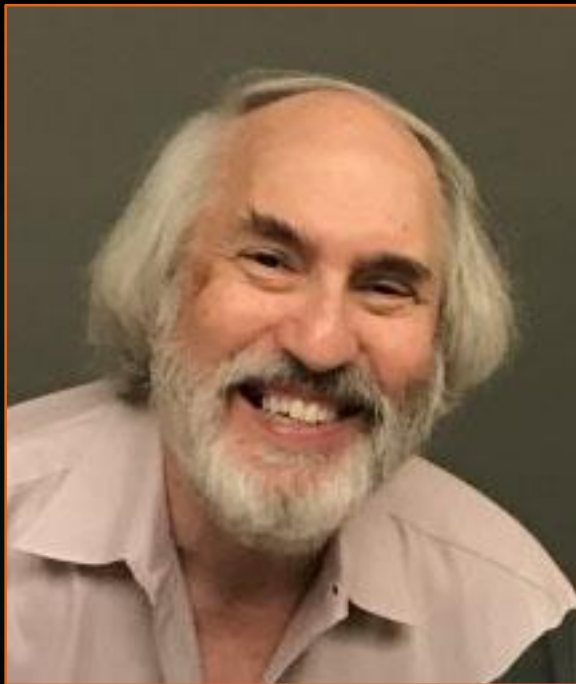


January 20, 2022  
*Improving Home Environments for Older Adults*



# ENGR110/210

## Perspectives in Assistive Technology



David L. Jaffe, MS  
Instructor

16  
Years



COULD YOU PLEASE SHOVEL THE RAMP?

ALL THESE OTHER KIDS ARE WAITING TO USE THE STAIRS. WHEN I GET THROUGH SHOVELING THEM OFF, THEN I WILL CLEAR THE RAMP FOR YOU.

BUT IF YOU SHOVEL THE RAMP, WE CAN ALL GET IN!

CLEARING A PATH FOR PEOPLE WITH SPECIAL NEEDS CLEARS THE PATH FOR EVERYONE!

Submitted by Marlo Kohn



# Questions?



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





# Reminder - Work with Diligence



- ▶ Time is your team's most precious resource
- ▶ 2.5 weeks of class until Mid-term Presentations - Tue, Feb 8th



# Apologies

- ▶ Trouble with classroom monitors
- ▶ Some Zoom meeting misconnections



# Upcoming class sessions



- ▶ Tue, Jan 25<sup>th</sup>  
Designing Beyond the Norm to Meet the Needs of All People  
Peter W. Axelson, MSME, ATP, RET
- ▶ Thu, Jan 27<sup>th</sup>  
From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments  
Sha Yao
- ▶ Tue, Feb 1<sup>st</sup>  
Issues of Human Interface Design  
Gary M. Berke, MS, CP, FAAOP

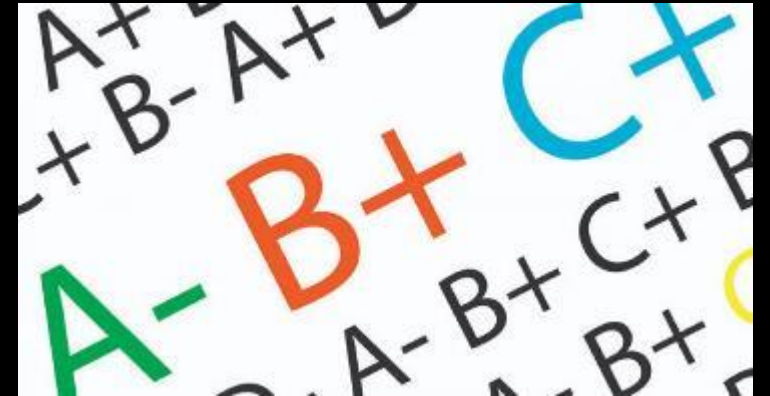


# Grading - Team Projects



<b>Deliverable</b>	<b>%</b>
Mid-term Presentation	10
Mid-term Report	10
Prototype Design & Functionality	20
End-of-term Presentation	20
End-of-term Report	20
Individual Reflection	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.

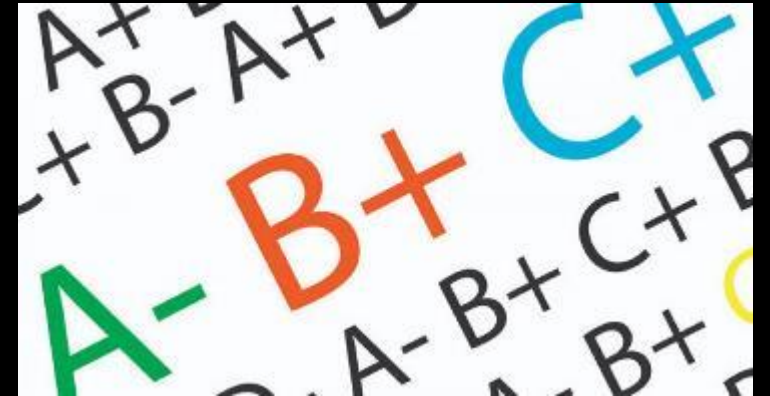




# Grading - Individual Projects



<b>Deliverable</b>	<b>%</b>
End-of-term Presentation	40
End-of-term Report	40
Individual Reflection	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.



# Students working on fabrication projects

## Activities for the remainder of the quarter



- ▶ Understand the Problem / Challenge
- ▶ Work as a team or individually
- ▶ Fabricate low-cost prototypes
- ▶ Discuss and demonstrate the prototypes to the project suggestor
- ▶ Receive and analyze their feedback and suggestions
- ▶ Redesign and fabricate a refined prototype
- ▶ Iterate the process until the end of the quarter
- ▶ Report your project progress

# Students working on non-fabrication projects

## Activities for the remainder of the quarter



- ▶ Continue research on topic
- ▶ Interview additional people including clients
- ▶ Include your perspectives, draw conclusions
- ▶ Report your project progress

# Social Model Animation



Imagine a town  
full of physically impaired people,

[Play video](#)



# Persona



- ▶ The characterization of a typical / average person who represents the consumer group for a prototype being designed or a product being commercialized
- ▶ May not be a real person
- ▶ However, every person with a disability or older adult differs in their challenges, goals, preferences, and prejudices
- ▶ Consider products with versions, adjustability, ability to be customized, accessories, modularity, universally designed

# Tuesday, January 25th



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

Peter W. Axelson, MSME, ATP, RET  
Beneficial Designs, Inc.

# Today



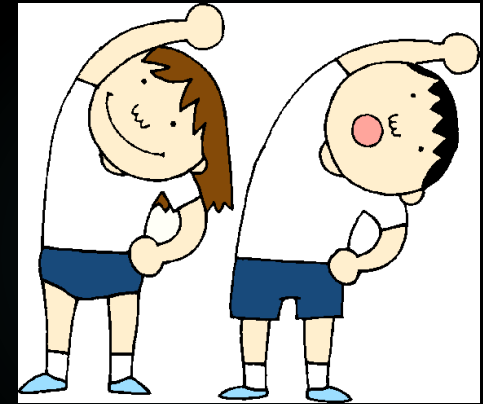
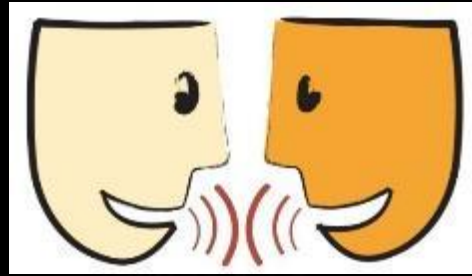
*Improving Home Environments for Older Adults*

Matteo Zallio, M.Arch, PhD



# Break Activities

- ▶ Sign 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

