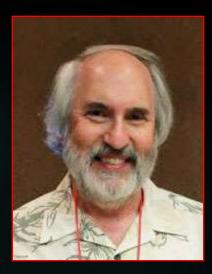
January 26, 2017

ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS Instructor



Questions?







Attendance Sheet, Evaluation Form, and Meet with Dave Signup

For all students:

- Attendance Sheet
- Meet with Dave signup Teams or individual students

For everyone:

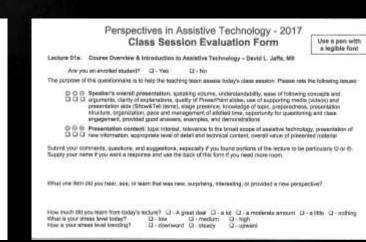
Class Session Evaluation Form

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Before class outside Thornton 110 After class in Thornton 120 Other times in Peterson Building, Room 113

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Pre-lecture Discussion Topics

28 Accessibility

- 19 Assistive Robotics
- 19 In the News
- 14 Ten Commandments of Making
- 14 Video Theater
- 11 Marketing Terms
- 9 Ethical / Moral Dilemmas Related to Disability
- 9 Vintage Assistive Technology
- 7 Who is Disabled?
- 7 More Information on the Design Development Process
- 7 Famous People with Disabilities TV Edition
- 3 The Upside of Failure
- 1 Assistive Robotics for Medical Devices

What is this?





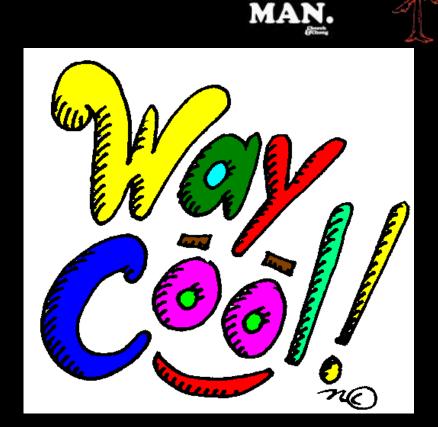




Team Projects

- Work with diligence
- Purchase shop passes from PRL keep receipt
- Report project progress by email
- Meet with Dave as a team





DAVE'S

NOT

HDRD,

Current Tasks



Understand the Problem

- Meet with project suggestor / user
- Gather information background on disability condition
- Research current solutions
- Determine why existing products don't work
- Judge the Need
- Brainstorm design concepts
 - Identify many ideas
 - Explore wild ideas
- Select top design concepts using Pugh Chart
 - Remember "coolness factor"
- Sketch & fabricate low resolution prototypes

Design Alternatives - Pugh Analysis

			-				
	Weight	Otter Ball	Puzzle Box	Moving Maze	Tether Ball	Whack- a-mole	Wotter Wheel
Cost	3	2	-2	-2	1	-2	0
Durability Physical	2	2	2	2	-2	0	2
Enrichment	1	-1	0	-1	0	2	2
Cognitive Enrichment Sensor	2	-2	2	2	-2	1	-2
Integration	2	0	2	-2	- 31	- 1	2
Novelty	1	-2	2	1	-2	1	2
Production Feasibility	2	1	-1	0	2	-2	-1
Net Score		5	6	-1	-1	-3	6
Rank		5	T2	Т8	TB	12	T2

Mid-term Presentation Outline

- Introduction of team and its members
- Brief abstract
- Statement of problem
- Magnitude of problem addressed by this project
- Discussion of interviews with those who suggested the project and potential users
- Statement of specific need
- Identification of existing solutions and discussion of their limitations
- Description of brainstormed design concepts
- Analysis of considered design alternatives
- Description of top selected design concepts, including their technical feasibility, engineering difficulty, estimated cost, user acceptance, safety considerations, etc
- Design visualizations: photographs, videos, sketches, drawings, models, and prototypes
- Future work and challenges for continuing the project toward fabrication and testing with users

3weeks/olice

Mid-term Discussion Items

Project status - what has been done, what remains
Problems encountered, resolved, and pending
Expenses and challenges expected
Plans for the remainder of the quarter

CLASS PRESENTATIONS



Tuesday, January 31st



Humanistic Intelligence and HARCAD for Assistive Technologies

Steve Mann, PhD University of Toronto

Today





Designing Beyond the Norm to Meet the Needs of All People

Peter W. Axelson, MSME, ATP, RET Beneficial Designs, Inc. Director of Research & Development

> Optional dinner at Max's Opera Café in Stanford Shopping Center ~ 7pm



Short Break

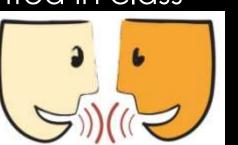


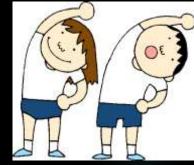


Break Activities



- 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



