

January 29, 2019

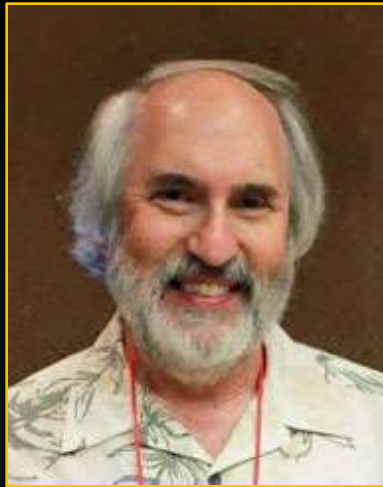
From Idea to Market:

Eatwell, Assistive Tableware for Persons with Cognitive Impairments



# ENGR110/210

## Perspectives in Assistive Technology



David L. Jaffe, MS  
Instructor

**13**  
**Years**

# Questions?



# Attendance Sheet, Evaluation Form, and Meet with Dave Signup



For all students:

- Attendance Sheet
- Meet with Dave signup

For everyone:

- Class Session Evaluation Form



ENGR110210 Enrolled Student Attendance List  
January 10, 2017

Enroll Number	Name of Enrolled Student	Enroll Number	Name of Enrolled Student
10001	Adams, John Alexander	10001	Adams, John Alexander
10002	Adams, John Alexander	10002	Adams, John Alexander
10003	Adams, John Alexander	10003	Adams, John Alexander
10004	Adams, John Alexander	10004	Adams, John Alexander
10005	Adams, John Alexander	10005	Adams, John Alexander
10006	Adams, John Alexander	10006	Adams, John Alexander
10007	Adams, John Alexander	10007	Adams, John Alexander
10008	Adams, John Alexander	10008	Adams, John Alexander
10009	Adams, John Alexander	10009	Adams, John Alexander
10010	Adams, John Alexander	10010	Adams, John Alexander
10011	Adams, John Alexander	10011	Adams, John Alexander
10012	Adams, John Alexander	10012	Adams, John Alexander
10013	Adams, John Alexander	10013	Adams, John Alexander
10014	Adams, John Alexander	10014	Adams, John Alexander
10015	Adams, John Alexander	10015	Adams, John Alexander
10016	Adams, John Alexander	10016	Adams, John Alexander
10017	Adams, John Alexander	10017	Adams, John Alexander
10018	Adams, John Alexander	10018	Adams, John Alexander
10019	Adams, John Alexander	10019	Adams, John Alexander
10020	Adams, John Alexander	10020	Adams, John Alexander
10021	Adams, John Alexander	10021	Adams, John Alexander
10022	Adams, John Alexander	10022	Adams, John Alexander
10023	Adams, John Alexander	10023	Adams, John Alexander
10024	Adams, John Alexander	10024	Adams, John Alexander
10025	Adams, John Alexander	10025	Adams, John Alexander
10026	Adams, John Alexander	10026	Adams, John Alexander
10027	Adams, John Alexander	10027	Adams, John Alexander
10028	Adams, John Alexander	10028	Adams, John Alexander
10029	Adams, John Alexander	10029	Adams, John Alexander
10030	Adams, John Alexander	10030	Adams, John Alexander
10031	Adams, John Alexander	10031	Adams, John Alexander
10032	Adams, John Alexander	10032	Adams, John Alexander
10033	Adams, John Alexander	10033	Adams, John Alexander
10034	Adams, John Alexander	10034	Adams, John Alexander
10035	Adams, John Alexander	10035	Adams, John Alexander
10036	Adams, John Alexander	10036	Adams, John Alexander
10037	Adams, John Alexander	10037	Adams, John Alexander
10038	Adams, John Alexander	10038	Adams, John Alexander
10039	Adams, John Alexander	10039	Adams, John Alexander
10040	Adams, John Alexander	10040	Adams, John Alexander
10041	Adams, John Alexander	10041	Adams, John Alexander
10042	Adams, John Alexander	10042	Adams, John Alexander
10043	Adams, John Alexander	10043	Adams, John Alexander
10044	Adams, John Alexander	10044	Adams, John Alexander
10045	Adams, John Alexander	10045	Adams, John Alexander
10046	Adams, John Alexander	10046	Adams, John Alexander
10047	Adams, John Alexander	10047	Adams, John Alexander
10048	Adams, John Alexander	10048	Adams, John Alexander
10049	Adams, John Alexander	10049	Adams, John Alexander
10050	Adams, John Alexander	10050	Adams, John Alexander
10051	Adams, John Alexander	10051	Adams, John Alexander
10052	Adams, John Alexander	10052	Adams, John Alexander
10053	Adams, John Alexander	10053	Adams, John Alexander
10054	Adams, John Alexander	10054	Adams, John Alexander
10055	Adams, John Alexander	10055	Adams, John Alexander
10056	Adams, John Alexander	10056	Adams, John Alexander
10057	Adams, John Alexander	10057	Adams, John Alexander
10058	Adams, John Alexander	10058	Adams, John Alexander
10059	Adams, John Alexander	10059	Adams, John Alexander
10060	Adams, John Alexander	10060	Adams, John Alexander
10061	Adams, John Alexander	10061	Adams, John Alexander
10062	Adams, John Alexander	10062	Adams, John Alexander
10063	Adams, John Alexander	10063	Adams, John Alexander
10064	Adams, John Alexander	10064	Adams, John Alexander
10065	Adams, John Alexander	10065	Adams, John Alexander
10066	Adams, John Alexander	10066	Adams, John Alexander
10067	Adams, John Alexander	10067	Adams, John Alexander
10068	Adams, John Alexander	10068	Adams, John Alexander
10069	Adams, John Alexander	10069	Adams, John Alexander
10070	Adams, John Alexander	10070	Adams, John Alexander
10071	Adams, John Alexander	10071	Adams, John Alexander
10072	Adams, John Alexander	10072	Adams, John Alexander
10073	Adams, John Alexander	10073	Adams, John Alexander
10074	Adams, John Alexander	10074	Adams, John Alexander
10075	Adams, John Alexander	10075	Adams, John Alexander
10076	Adams, John Alexander	10076	Adams, John Alexander
10077	Adams, John Alexander	10077	Adams, John Alexander
10078	Adams, John Alexander	10078	Adams, John Alexander
10079	Adams, John Alexander	10079	Adams, John Alexander
10080	Adams, John Alexander	10080	Adams, John Alexander
10081	Adams, John Alexander	10081	Adams, John Alexander
10082	Adams, John Alexander	10082	Adams, John Alexander
10083	Adams, John Alexander	10083	Adams, John Alexander
10084	Adams, John Alexander	10084	Adams, John Alexander
10085	Adams, John Alexander	10085	Adams, John Alexander
10086	Adams, John Alexander	10086	Adams, John Alexander
10087	Adams, John Alexander	10087	Adams, John Alexander
10088	Adams, John Alexander	10088	Adams, John Alexander
10089	Adams, John Alexander	10089	Adams, John Alexander
10090	Adams, John Alexander	10090	Adams, John Alexander
10091	Adams, John Alexander	10091	Adams, John Alexander
10092	Adams, John Alexander	10092	Adams, John Alexander
10093	Adams, John Alexander	10093	Adams, John Alexander
10094	Adams, John Alexander	10094	Adams, John Alexander
10095	Adams, John Alexander	10095	Adams, John Alexander
10096	Adams, John Alexander	10096	Adams, John Alexander
10097	Adams, John Alexander	10097	Adams, John Alexander
10098	Adams, John Alexander	10098	Adams, John Alexander
10099	Adams, John Alexander	10099	Adams, John Alexander
10100	Adams, John Alexander	10100	Adams, John Alexander

Sign Up to Meet with Dave

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

Date & Time	Enter Your Name & Specify 15 minute time block
Wednesday - January 18 <sup>th</sup> Morning - 8:30am - 11:30am	
Afternoon - 1:00pm - 4:30pm	
Thursday - January 19 <sup>th</sup> Morning - 8:30am - 11:30am	
Afternoon - 1pm - 3:30pm	
Before class - 5:45pm - outside classroom	
After class - 8pm	
Friday - January 20 <sup>th</sup> Morning - 8:30am - 11:30am	

Perspectives in Assistive Technology - 2017  
Class Session Evaluation Form

Lecture 01a: Course Overview & Introduction to Assistive Technology - David L. Jaffe, MS

Are you an enrolled student?  - Yes  - No

The purpose of the questionnaire is to help the teaching team assess today's class session. Please rate the following issues:

Speaker's overall presentation: speaking volume, understandability, ease of following concepts and arguments, clarity of explanations, quality of PowerPoint slides, use of supporting media (videos) and presentation aids (blackboard/whiteboard), stage presence, knowledge of topic, preparedness, presentation structure, organization, pace and management of allotted time, opportunity for questioning and class engagement, provided good examples, concepts, and demonstrations

Presentation content: topic relevant, relevance to the broad scope of assistive technology, presentation of new information, appropriate level of detail and technical content, overall value of presented material

Submit your comments, questions, and suggestions, especially if you found portions of the lecture to be particularly good or bad. Supply your name if you want a response and use the back of this form if you need more room.

What one item did you hear, see, or learn that was new, surprising, interesting, or provided a new perspective?

How much did you learn from today's lecture?  - A great deal  - a bit  - a moderate amount  - a little  - nothing

What is your stress level today?  - low  - medium  - high

How is your stress level trending?  - downward  - steady  - upward

# Drivers' Signup for Field Trip to VA



## Car Pool Drivers' Signup Sheet - 2019

Field trip: Thursday, February 7th - VA Palo Alto Health Care System

Students and community members: Please indicate your availability to drive students to this field trip venue. Unless otherwise arranged, the departure point from Stanford is the Littlefield Center.

Driver's name: Dave Jaffe  
Cell phone: 650/892-4464  
Car model & color & number of passengers: Black Honda Civic Si - 3

Driver's name: \_\_\_\_\_  
Cell phone: \_\_\_\_\_  
Car model, color, and number of passengers: \_\_\_\_\_  
Available for early return @ 5:40:  - Yes

Driver's name: \_\_\_\_\_  
Cell phone: \_\_\_\_\_  
Car model, color, and number of passengers: \_\_\_\_\_  
Available for early return @ 5:40:  - Yes

- ▶ Students and community members: Please indicate your availability to drive students to this field trip. Unless otherwise arranged, the departure point from Stanford is the Littlefield Center.
- ▶ Let me know if you are a solo driver so I can send you a map.

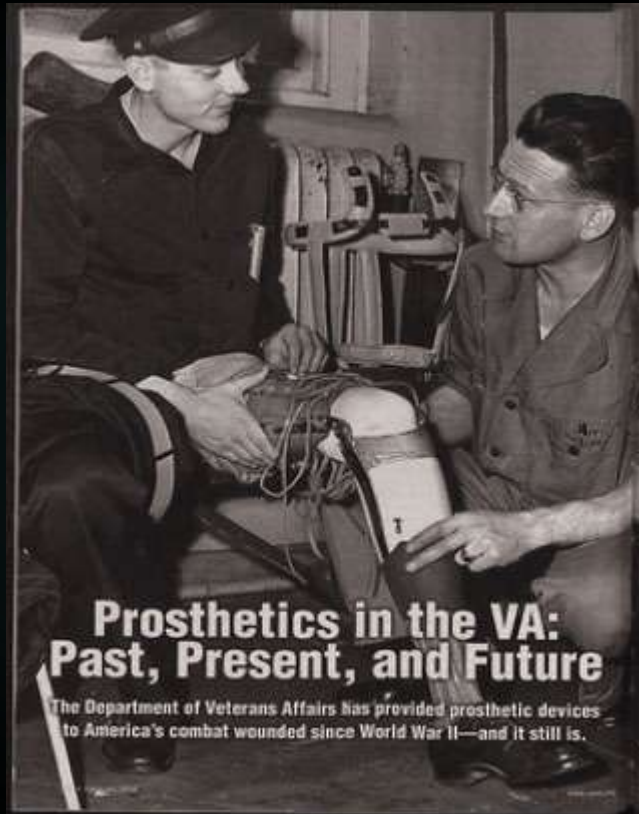
# Pickup at Littlefield Center



# Prosthetic device fitting



Gary Berke reports that at Veterans Affairs Medical Centers, prosthetic devices are fitted by in-house prosthetists.



# Team Projects



Expected for Mid-term:

- ❑ Connect with project partner
- ❑ “Understand the Problem”
  - ❑ Internet search
  - ❑ Existing products / devices
  - ❑ Survey technology
- ❑ Brainstorm
- ❑ Select Design Concept(s)
- ❑ Sketches, low resolution prototypes



# Work with Diligence

- ▶ Time is your team's most precious resource
- ▶ 5.5 weeks of class left to work on your projects
- ▶ Mid-term team presentations in 2.5 weeks
- ▶ Not to early to outline presentation & report





# Pre-Lecture Discussion Topics



22 - Ethical / Moral Dilemmas Related to Disability

22 - In the News - New Assistive Technology products and research

20 - Assistive Robotics - Robotic technology benefitting people with disabilities and older adults

15 - Overview of Accessibility - How this design feature relates to products, with many examples

15 - Ten Commandments of Making - Adam Savage's Maker Faire video

15 - Video Theatre - Watch and discuss videos of new products and prototypes

12 - Vintage Assistive Technology - Products and devices from the past

12 - The Upside of Failure - Learning from prototypes that didn't work

12 - Who is Disabled? - Making a determination with limited information

12 - Innovative Marketing Metrics - How we use words to measure and advertise

9 - Famous people with disabilities - Focus on TV characters

# Ethical / Moral Dilemmas Related to Disability



Formally titled  
“Fun with Ethics”



# Making Decisions



1. Everyone evaluates situations and makes decisions everyday
2. As one gets older, these decisions more frequently involve and affect others
3. Tough decisions are often made using a complex combination of upbringing, economics, religion, law, individual notion of what is right, politics, and personal experience



# Situation 1



Would it be wrong for a “normal” couple to abort a fetus diagnosed with dwarfism or Down Syndrome?



# Situation 2

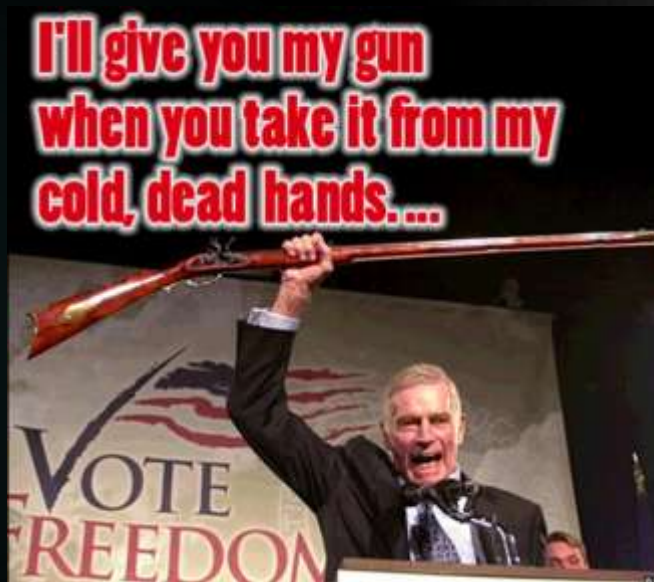
If two parents with Achondroplasia - an inherited form of dwarfism - wanted a child who looked like them, would it be wrong for them to terminate a normal-sized fetus?



# Situation 3



Should everyone have a right to bear arms?



# Situation 4



Should someone **who is blind** have a right to bear arms?



# Situation 5



You are a biomedical engineer working in a spinal cord injury ward. An occupational therapist approaches you with a patient's request. The patient, an individual with quadriplegia, wants a device that would enable him to independently smoke a cigarette.

What do you do?





# Situation 6



You are a sign language interpreter for a deaf woman. Her communication includes a lot of obscenities which causes you a lot of embarrassment and distress.

What do you do?



# Situation 7



As a surgeon, would you approve a heart transplant for someone with a disability?



# Situation 8



As a concerned citizen, would you condone the marriage and subsequent parenthood of a couple, one or both with developmental disabilities?



# Thursday, February 31st



Improving Indoor Environments for Older Adults

Matteo Zallio, M.Arch, PhD

Fulbright Scholar



# Today



*From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments* (by video)

Sha Yao  
Sha Design



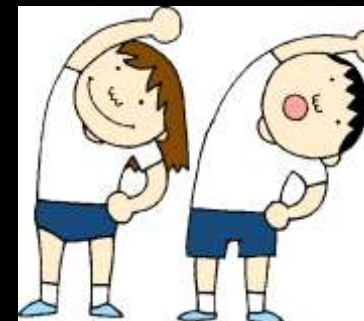
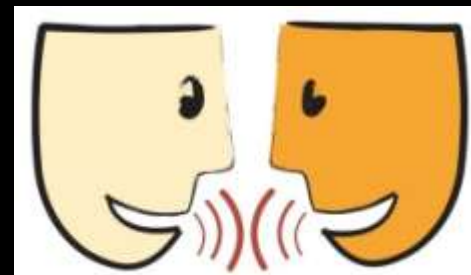
# Short Break



# 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



# Today



*From Idea to Market: Eatwell, Assistive Tableware for Persons with Cognitive Impairments* (by video)

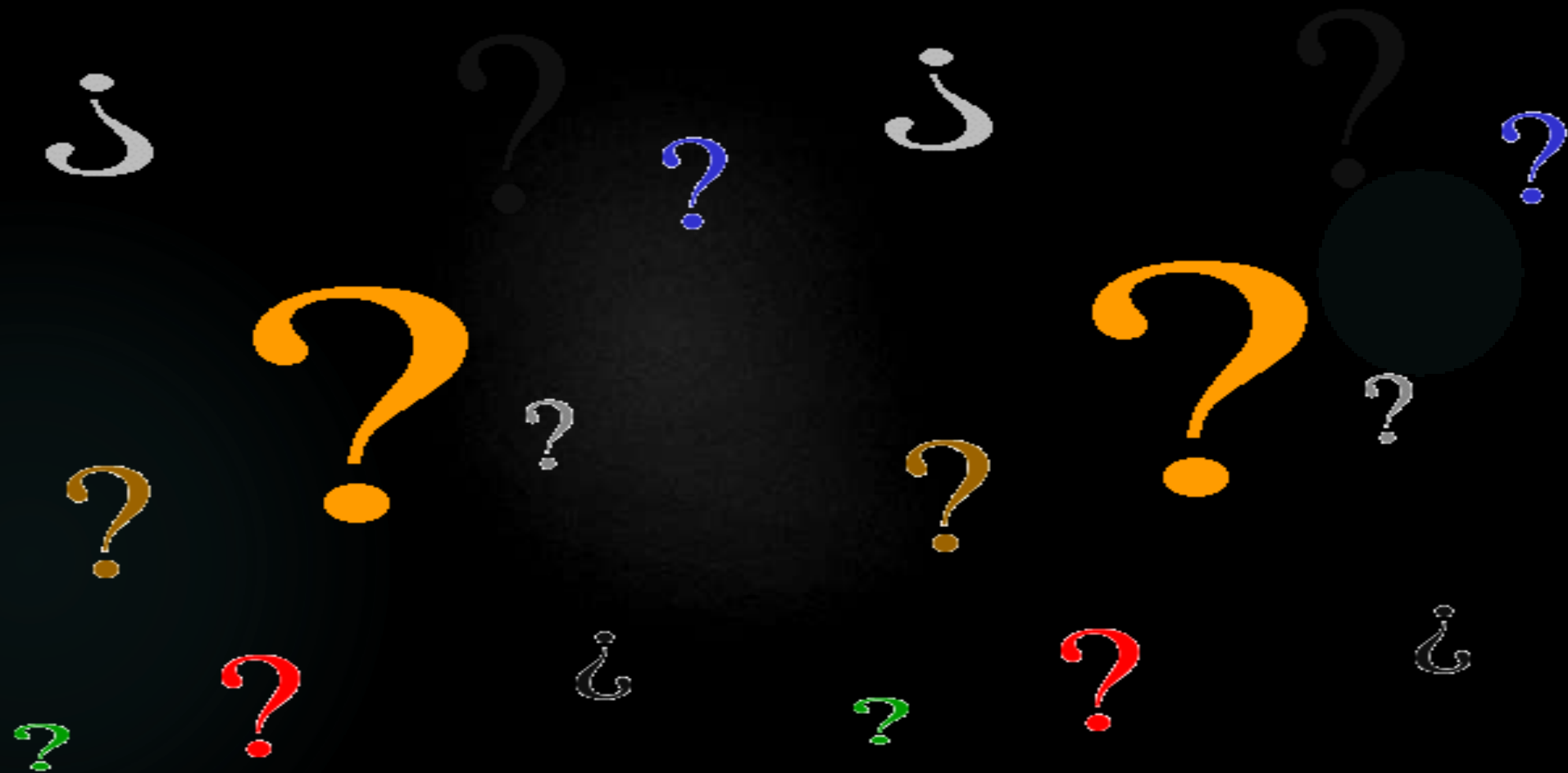
Sha Yao

Sha Design

Sha Yao describes herself as a passionate Industrial Designer who likes to challenge herself. She has a diverse background and speaks English, Mandarin Chinese, and Japanese. She created a product design studio to help startup companies develop their product ideas, and especially loves to work on projects that help people in need.



# Questions?



Adjourn



class dismissed



# Laptops Galore



# Time for Questions?



End the class

