

January 17, 2013

# ENGR110/210

## Perspectives in Assistive Technology



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Professor Drew Nelson

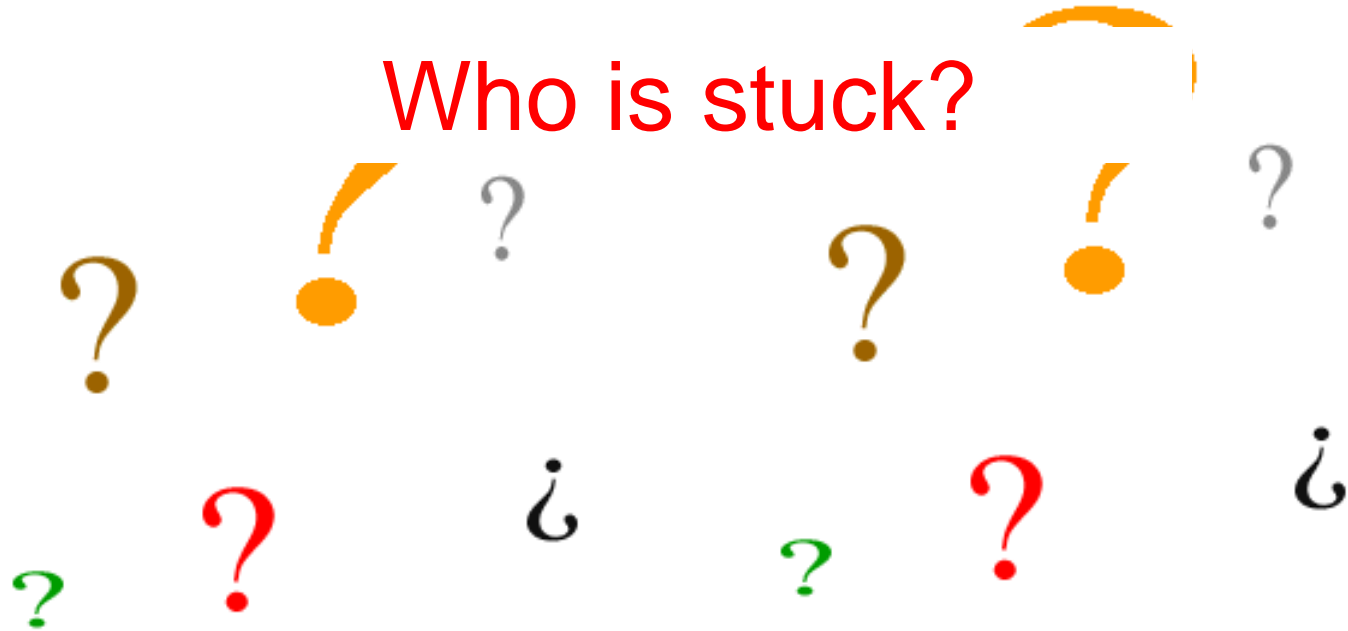


Krystal Le

# Questions?



Who is stuck?



# Agenda

- Willow Garage Tour next Thursday
- Project Preference
- Team Formation
- Individual Projects
- Room 36
- Photo of the Day
- Who is Disabled?
- Guest Lecture:

Deborah E. Kenney, MS, OTR/L

**The Transdisciplinary Team: Bridging the Gap between Consumers and Products in Rehabilitation Medicine**

# Willow Garage Tour next Thursday

- Driver and passenger signup sheets
- Attendance limited to students and drivers
- Anybody need to leave early?
- Maps available next Tuesday

# Project Preferences

- Consider project offerings
- Contact suggestor or Dave for more info
- Email top project preferences to Dave **immediately**

# Team Formation

- Consider other students' preferences
  - <http://enr110.stanford.edu/preferences.html>
- Form a team by end of tomorrow
- Send email to Dave
  - Team members
  - Name of team
  - Name of project
- Think about
  - Name of device or software
  - Logo
- Schedule team meeting with Dave next week

# Individual Projects

- Meet with Dave to discuss and agree on the project

# PRL & Room 36

How many students working on team or individual projects desire access to PRL & Room 36 resources who do not already have a PRL Shop Pass this quarter?

Indicate your desire on Attendance Sheet



# Photo of the Day



# Who is Disabled?

Disability is defined as a health condition or physical impairment that prevents an individual from taking full advantage of life's opportunities such as education, vocation, recreation, and activities of daily living.

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# Who is Disabled?

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- This individual employs a powered wheelchair for his mobility.
- This individual uses a speech output communication device to facilitate his communication.

# Who is Disabled?

- A 70 year old Englishman with ALS cannot walk, talk, or personally perform any of the usual activities of daily living. He has only very limited volitional control of one finger and one facial muscle.
- This individual employs a powered wheelchair for his mobility.
- This individual uses a speech output communication device to facilitate his communication.
- The individual is Stephen Hawking, often described as the smartest person alive.

# Question?

- What makes the difference between Hawking's ability and disability?



# Observation

- Individuals with severe disabilities can achieve extraordinary well



# Who is Disabled?

- Superman

... came to Earth with powers and abilities far beyond those of mortal men



# Who is Disabled?

- Superman
- Superman with Kryptonite



# Observation

- There are situations that can cause temporary impairments in even the most able-bodied individuals

# What's the Point?

- With limited or incomplete information, you may not be able to make an accurate determination of a person's abilities / capabilities
- With limited or incomplete or biased information, you may not be able to make an accurate assessment
  - Political issues
  - Individual's character
  - Product advertising
  - News reports
  - Movie reviews

# Important to Note

- Other – hidden – conditions can affect communication ability
  - Brain injury
  - PTSD
  - Psychological factors
- Other hidden disabilities:
  - Hearing, sight
  - Use of prosthetics or orthotics
  - Learning or developmental conditions
  - Progressive health / disease conditions



# Tuesday

## Perspectives of Stanford Students with a Disability



- Vivian T. Wong
- Emily Kelly
- Morgan Duffy
- Fiona Hinze
- Page Ive



# Today



Deborah E. Kenney, MS, OTR/L

**The Transdisciplinary Team: Bridging the Gap between Consumers and Products in Rehabilitation Medicine**

# Short Break

