

February 7, 2013

ENGR110/210

Perspectives in Assistive Technology



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Questions?



Project challenges?



Double Thanks

- Thank you for your participation with Robin Dunbar in the small group evaluation on Tuesday
- Continued thanks for your participation and filling out the class evaluation forms

Team Projects

- Mid-term project tasks: (From [Assignment 1 – Tasks](#))
 - Project name
 - Acquire problem information from project suggestor
 - Determine magnitude of problem and populations who might benefit from a solution
 - Interview an individual who would benefit from a solution
 - Research current products - what are their limitations?
 - Brainstorm design concepts - describe top three choices
 - Describe how your concept might address problem

Team Projects

- Upcoming [mid-term presentation](#) – next Thursday
 - Review an outline of your presentation or slides
 - Listen to a practice presentation
 - Meet with me to discuss project progress – Friday
 - Submit PowerPoint slides & videos by Wednesday @ 5pm

Objectives & Deadlines

Keep in mind the competing objectives and deadlines between what is required for this course and what your users and project suggestors desire.

Agenda

- Word of the Day
- School access to recreation & sports
- Discussion Topic Choices
- 6Dot video
- Prosthetics presentations by Sakti Srivastava, MBBS, MS & Gary M. Berke, MS, CP, FAAOP

Word of the Day

- **Sarcopenia** is the degenerative loss of skeletal muscle mass (0.5-1% loss per year after the age of 25), quality, and strength associated with (but not necessarily caused by) aging.
- Potential projects:
 - Walking and exercise motivation device
 - Muscle mass and strength measuring device
 - Risk analysis app for mobility impairment

School Access to Recreation & Sports

The Department of Education recently clarified public schools' responsibilities under Section 504 of the Rehabilitation Act of 1973 regarding the provision of extracurricular athletics. The Education Department's Office for Civil Rights issued a "guidance letter" to public schools on January 25, 2013 stating that sports and recreation activities are a right, and **schools must therefore provide equal access to extracurricular sports activities to students with disabilities.**

Potential projects:

Discussion Topic Choices

1. Introduction of teams and projects
2. Old Assistive Technology
3. New Products / Research in the News
4. More videos about assistive technology
5. Is this Politically Correct?
6. Get input on your project / share ideas
7. Who is Deserving?
8. Fun with Ethics
9. Other suggestion

Video Theater

- What is the focus of the video?
- Is it a product, prototype, research, other?
- Who does it benefit?
- Do you think it has promise?
- How useful is it?
- What are the key features?
- What are the unknowns?
- Is it cool?

6dot-labeler

Stanford grads' invention gives the blind high tech help

From: ABC7 Video

By: Jonathan Bloom

Designed by a group of recent Stanford grads, the six-dot labeler prints out sticky labels in Braille.

Watch the video (2:28) at:

<http://abclocal.go.com/kgo/video?id=8939813>

Tuesday



Memories, Lost & Found: Engaging Families, Caregivers & Those with Memory Loss



Rita Ghatak, PhD & Philip R. von Stade, Jr.

Today



Prosthetics

Sakti Srivastava, MBBS, MS & Gary M.
Berke, MS, CP, FAAOP



Short Break



Class
Dismissed!

