Arne's Photos 01/09/2014





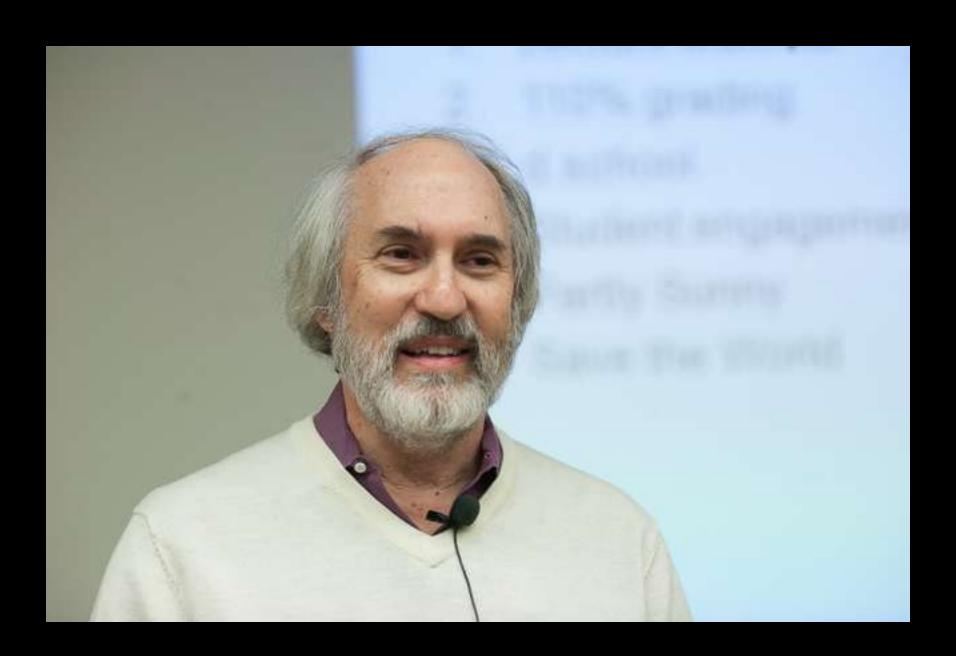


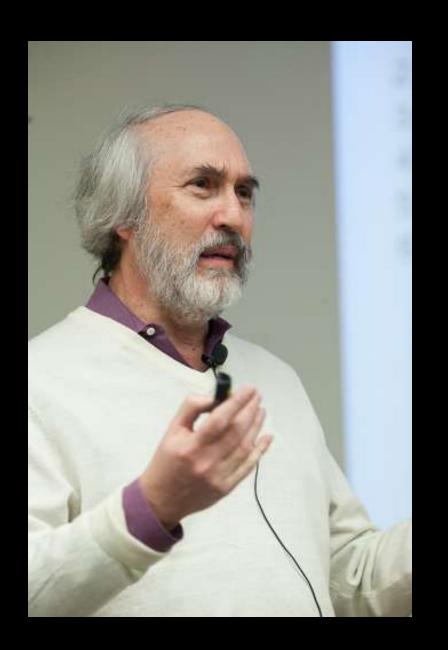
Did You Miss Tuesday's Lecture?

- Pick up handouts from Tuesday:
 - · Student Team Candidate Projects
 - · Enrolled Student Signup Sheet
- Review first lecture audio and slides on course website http://engrl10.stanford.edu/lecture01a.html
- Email me a 1 2 page summary of the lecture including your thoughts
- Upon receipt of your summary, I will credit you with "attending" this mandatory lecture

























PURPOSE

Make something!

et your concepts out into the ysical world through hands-or prototyping and exploration.

RESOURCES - COAC

Teaching assistants are available during all open hours for design and building coaching.





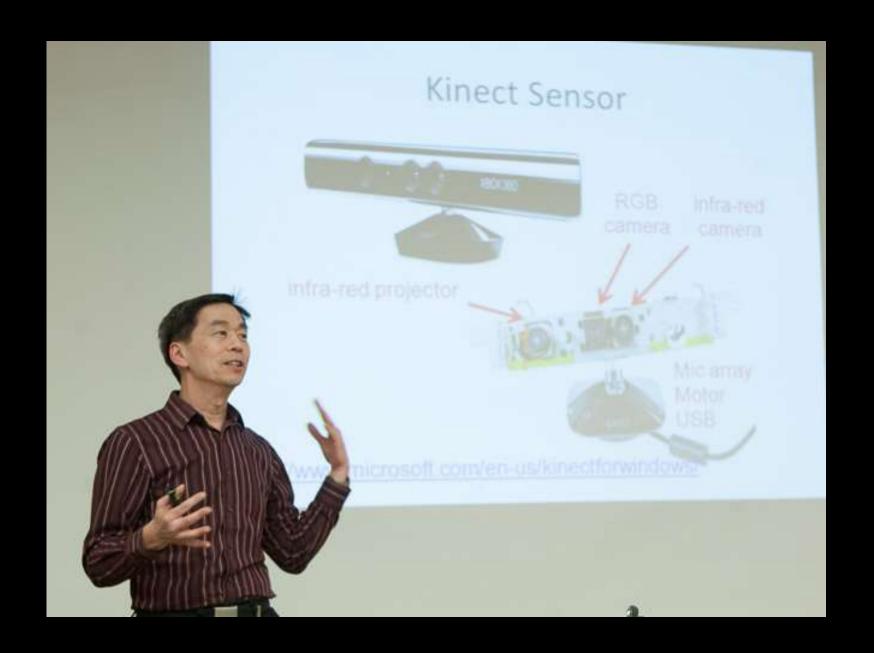


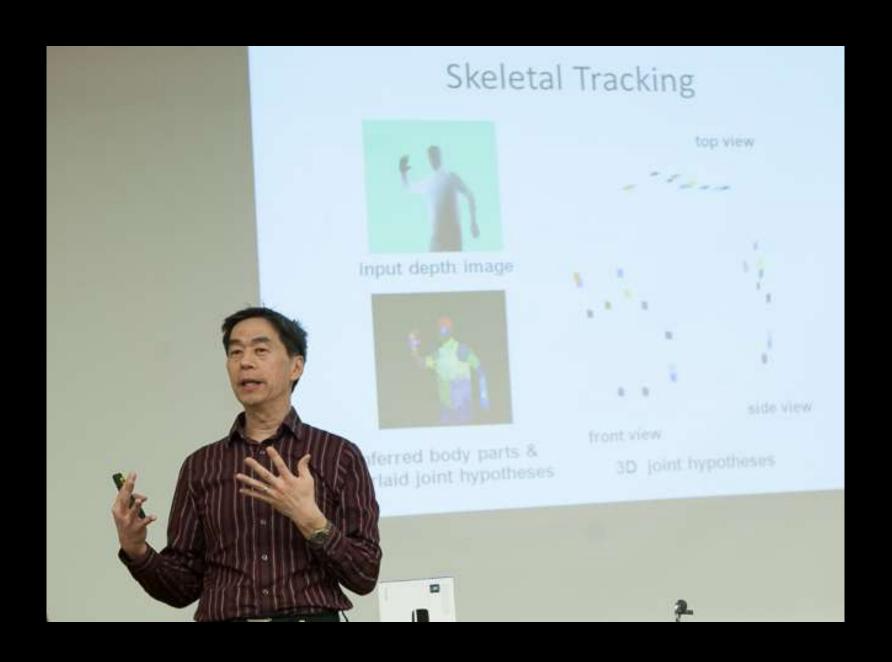
Project Pitches

 Educational Activities for Children with Disabilities - Greg Brown, RAFT

Investigate and develop new educational activities appropriate for children with disabilities. This may includ mechanical and/or computer software solutions that will provide interactive access for these learners.

On deck: John Tang









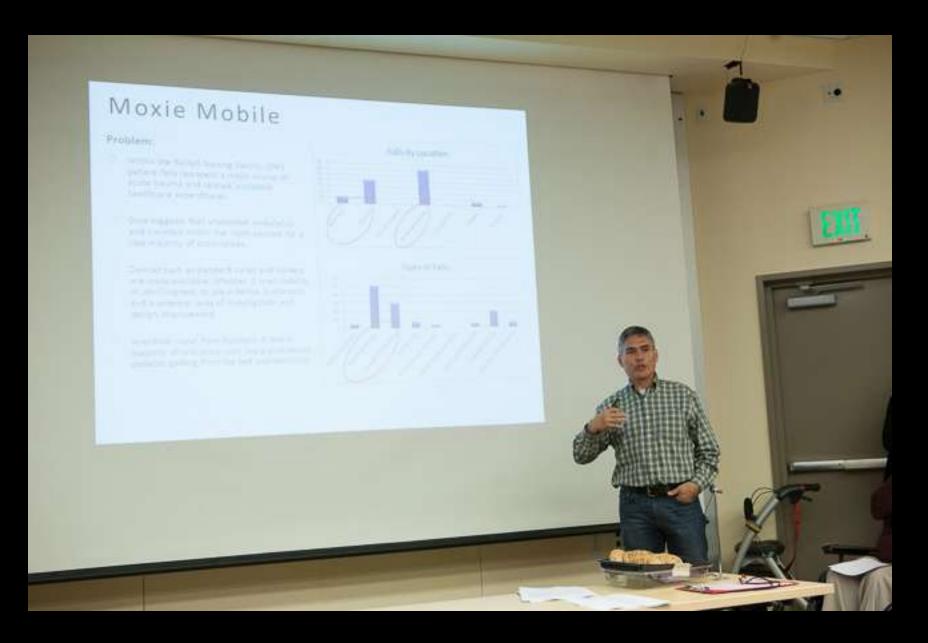
Project Pitches

- Asthma Control Project Ryan Van Vert
- Explore ways to change the design or features of traditional flow meters and apps that would make them more attractive and fun for children to use

On Back Dan Gillette & Ted Selker













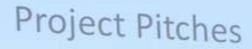












 3D Printing of Tactile Graphics / Objects for Teaching Blind Students - Adam Bernstein





 3D Printing of Tactile Graphics / Objects for Teaching Blind Students - Adam Bernstein

 Design and document the foundations of an online collaborative accessible tabase library of physical learning tools, 3D printable of a document the foundations of an online tabase library of physical learning tools, 3D printable of a document the foundations of an online tabase library of physical learning tools, 3D printable of a document the foundations of an online

On deck



Project Pitches

- Project employing the Leap Motion Controller— Michael Bernstein
- Explore an application for a person with a disability using the Leap Motion Controller product. Examples include enhanced computer control and accessibility for those with limited manipulation abilities, physical therapy coach, control of household appliances (lights, TV, music system), operation of Bluetooth devices (iPhone), and implementation of an onscreen keyboard.

On deck, Dave for Mark Felling



Project Pitches

- Project employing the Leap Motion Controller Michael Bernstein
- Explore an application for a person with a disability using the Leap Motion Controller product. Examples include enhanced computer control and accessibility for those with limited manipulation abilities, physical therapy coach, control of household appliances (lights, TV, music system), operation of Bluetooth devices (iPhone), and implementation of an onscreen keyboard.

On deck. Dave for Mark Felling



- Pooper scooper for canine companions of wheelchair users – Deane F. Denney
- Explore designs for a pooper scooper system that will be easy for pet owners with a disability to use.



On deck, Dave for Karen Pareckl



- Pooper scooper for canine companions of wheelchair users – Deane F. Denney
- Explore designs for a pooper scooper system that will be easy for pet owners with a disability to use.



On deck, Dave for Karen Parecki

- Pooper scooper for canine companions of wheelchair users – Deane F. Denney
- Explore designs for a pooper scooper system that will be easy for pet owners with a disability to use.



On deck: Dave for Karen Parecki

- Handbike Leg Positioning Project Debbie Pitsch
- Explore designs to prevent knee hyperextension while operating this competitive handbike as well as protect the leg from contact with the bike's wheel.





On deck: Dave for Evi Klein

- Microphone Comfort and Appearance Project Evi Klein
- Explore designs that address comfort, adjustability, positioning, and appearance issues.

This project is suitable as an individual rather than a team project.



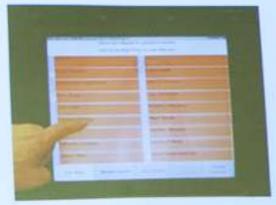
On deck: Dave for Deane F. Denney

- Enhanced bed control for veterans with spinal cord injury – Deane F. Denney
- Explore solutions that would enable veterans to more easily operate their beds, including voice activation.



- Enhanced access to touch-screen devices Deane F.
 Denney
- Explore ideas that would enable users to make their selections more accurately on their personal touch screen devices.





- Guide Robot for the Blind Brian Higgins
- Build a user-interface that facilitates communication between the robot and the user as well as the platform that supports the motorized computerized robot device.



On deck: Aman Kumar

Projects suggested by Aman Kumar

- Design a prototype device or app for communicating and visualizing symptoms of retinal detachment
- Design a prototype device or app that would assist health care professionals in assessing the effects of stuttering therapy
- Design a prototype device or app that would provide audio feedback of stutterers speech and video feedback of muscle disruptions that accompany stuttering
- Design a prototype device or app that would connect health care professionals
 with stutterers living in rural areas to provide care and therapy

On deck: Dave for Pat McCarty