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ENGR110/210

Perspectives in Assistive Technology



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Questions, Comments, Thoughts?



Projects

- Team projects
 - Group name & Project name
- Individual projects – let me know what you chose
 - Pursue a paper design of an assistive technology device
 - Research an assistive technology topic
 - Interview an individual with a disability

Brainstorming

- Ideally brainstorming should be done after a team has a thorough knowledge of the problem and need
- Otherwise the design concepts may represent pre-conceived information
- Re-brainstorm after new information is made available

Room 36 Start-up Process

How to use the lab:

1. Sign up on Webshop (<http://webshop.stanford.edu>)
2. Attend a 10 minute safety and lab orientation at Room 36 (look for any open Room 36 session on Webshop)
3. Pay fee: 1 qtr (\$40), 2 qtr (\$70), or 3 qtr (\$90). Day passes are available for \$10
4. Hours (generally): 8am-noon, 1pm-5, 7pm-11, with no evening session on Friday or Saturday
5. Note: Students who have a valid full PRL quarter pass can use Room 36 for no additional fee.

Upcoming Events

Both on Friday, February 4th

- Product Realization Network Mentor / Mentee lunch
Noon – 1:30pm
Location to be determined
- ACM Tech Talk
Alan Brightman & Victor Tsaran – Yahoo
Yahoo Accessibility Innovations
6-8pm in Gates 104

Project Expenses

General information

Project expenses are expected to be modest, no more than a few \$100, depending on the project.

Project Expenses

Reimbursement guidelines

- Reimbursable items include supplies, parts, software, consulting services, shipping, tax directly relating to the project.
- **Non**-reimbursable items include interest charges on credit cards, personal computer upgrades, food, alcohol, ...
- Items that require pre-purchase approval include any item over \$100, consulting services, ...

Project Expenses

Special items

- Shop fees are reimbursable for student members who use the shop to fabricate assistive technology projects.
- Travel fees are reimbursable. Submit a Google map indicating starting point and destination and mileage (rate = \$.50 per mile).

Project Expenses

Purchase procedure

- It would be best if one team member assumes responsibilities for all purchases.
- Purchases can be made with a Stanford PCard or individual credit card or cash. (Cash advances can not be arranged.)
- Save all receipts from reimbursable purchases.

Project Expenses

Reimbursement procedure

- Collect all receipts from purchases made by an individual team member.
- Arrange receipts in chronological order.
- Number receipts in chronological order.
- Paste, using a glue stick, **original receipts** on 8.5 by 11 sheets of paper (one side only).
- Compose a text document justifying need for items on each receipt. Example, "electronic parts required for motor control module".
- Email text document and hand in receipts.

Project Expenses

Other

- All purchased equipment and tools becomes Stanford's property. Please turn in all materials at the end of the course.
- Do not work with hazardous materials or chemicals without approved training, protection, and supervision.

Letter of Recommendation

Address applicant's ability to:

- pursue graduate studies and research
- work with peers, supervisors, and subordinates

Comment on applicant's:

- teaching potential
- outstanding abilities or talents
- liabilities or weaknesses
- oral and written communication skills
- character

Success / Failure

The degree of failure depends on the consequences:

It is not much of a failure if the only consequence is loss of time and the need to re-do the attempt. It is a totally different situation if there can be only one attempt or if there is considerable loss of time or money or any loss of life.

BrailleNote



Versions with standard QWERTY keyboards, no braille display, GPS option.

Who is Disabled?

- A young woman has a devastating car accident that results in facial disfigurement.
- She has plastic surgery and when the bandages are removed, she appears beautiful.
- She lives in a closed society of disfigured people.



Who is Disabled?

- Superman
- Superman sitting next to a piece of kryptonite.



Who is Disabled?

- An able-bodied intelligent child of ethnic descent
 - She cannot get a decent education in the segregated / poor / remote community in which she lives.
- or
- She cannot get a decent education since only boys are allowed to go to school.



Next Tuesday



Steve Cousins **Tour of Willow Garage**

- Signup sheet
- Driver and passenger sign up sheets
- Maps

Thursday



William A. Gerrey, BSEE
**Tools and Techniques for Individuals
with Visual Impairments**

Today



Elna R. Tymes - Los Trancos Systems
Why Assistive Technology is Important to Seniors

Adjourn

