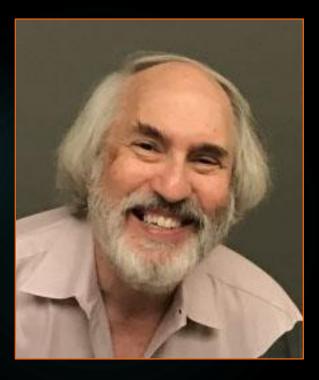
February 3, 2022 Accessible Making: Designing Makerspaces for Accessibility

ENGR110/210 Perspectives in Assistive Technology



David L. Jaffe, MS

Instructor



Questions?





Please notify me of your comments, suggestions, and concerns so I can explain / address / correct them.



- Let me know if you are unable to arrive on time or must leave early
- Review slides and watch Zoom video of missed portion of the class session
- Make up missed class sessions

Reminder - Work with Diligence

- ► Time is your most precious resource
- Five days until Mid-term Team Project Presentations Tue, Feb 8th
- Practice your presentation!



Upcoming class sessions

- Mid-term Student Project Presentations -Tue, Feb 8th
- Assistive Robotics Thu, Feb 10th Monroe Kennedy III, PhD
- VA Palo Alto Health Care System Tue, Feb 15th
 B. Jenny Kiratli, PhD & Jeffrey P. Jaramillo, DPT
- Virtual Assistive Technology Faire Thu, Feb 17th (by Zoom) Various Vendors



Students working on Team Projects

- Connect with project partner
- "Understand the Problem"
- Brainstorming
- Select Design Concept(s)
- Sketches, low resolution prototypes
- Prepare for Mid-Term Presentation and Report
- Contact me if you have questions about your project direction
- Weekly Meet with me or Bennett to discuss project progress, submit reports to both Bennett and me
 - Mid-Term Reports due Tue, Feb 15th







Students working on Team Projects Mid-term Presentations in 5 days!

- Mid-term presentations will be 7 minutes
- Project title, background, problem, aim, design criteria, "understanding the problem" & brainstorming activities, and selected solution, with low resolution prototype
- Send slides to me, to be run from my laptop by <u>Tuesday at noon</u>
- Don't embed videos supply YouTube link on slide
- Strive to be professional
- Include feeling & emotion
- Presentation tips on course website
- Practice your presentation for timing

Students working on Team Projects Mid-term Report

- Mid-term report 10 to 15 pages of narrative text and images
- Suggested format different for fabrication vs non-fabrication projects
- Include sketches and photos
- Goal: short, concise, well-written, and highly readable report with few grammatical and spelling errors.
- Report Writing Tips documents suggested report features

Students working on Individual Projects

Meet with me to approve your project, get information

- Submit project name
- Contact me if you have questions about your project direction
- Weekly Meet with me or Bennett to discuss project progress
- Submit progress reports to both Bennett & me

Steve Jobs' Quote

"Things don't have to change the world to be important."



Vintage Technology



SECO COMPLTER

46 years ago!

Vintage Computer Technology

What kind of man owns his own computer?

Bather revolutionary, the whole idea of owning your own computer? Not if you're a diplomat, printer, scientist, inventor... or a kise desgreer, too. Today there's Apple Computer. It's designeet to be a personal computer. To uncomplicate your tile. And make you more effective.

It's a wise man who owns an Apple.

If your time means money, Apple can help you make more of it. In an age of specialists, the most successful specialists stay away from uncreative dradgers. That's where Apple comes in.

Apple is a real computer, right to the core. So just like big computers, it manages data, crunches manbers, keeps records, processes your information and prints reports. You concentrate on what you do best, And let Apple do the rest. Apple naises that easy with three programming languages including Piacal—that let you be your own software expert.

Apple, the computer worth not waiting for. Time waiting for access to your company's big mainframe is time wasted. What you need in your department —

Bandley Drive,

Cupertino, CA 95014.

Alectable. Visit your local computer store.

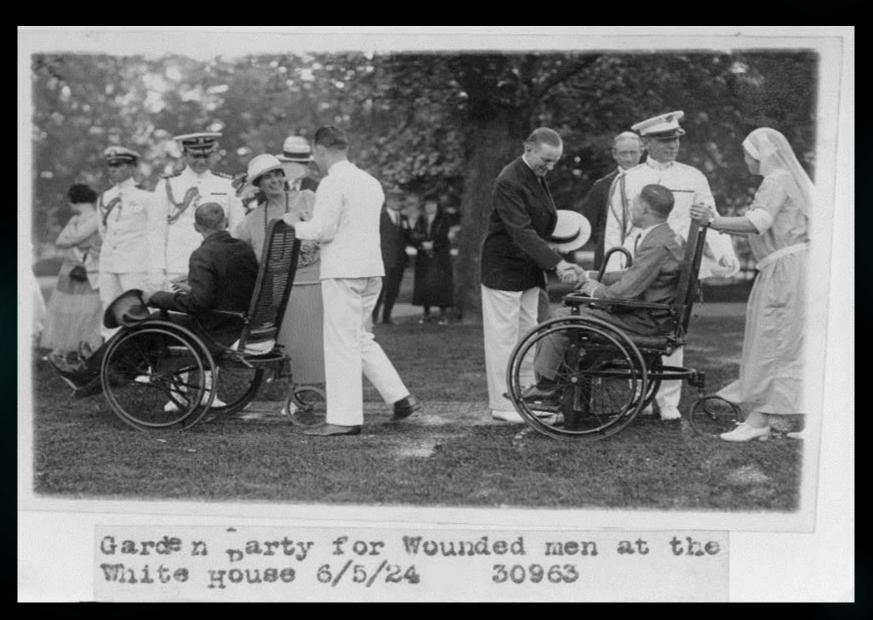
You can join the personal computer revolution by visiting the Apple dealer in your neighborhood. We'll give you his name when you call our toil free number (800) 653-9696. In California. (800) 662-9238 Apple Computer. 10290

apple computer

Vintage Assistive Technology Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs



Old Wheelchair Designs

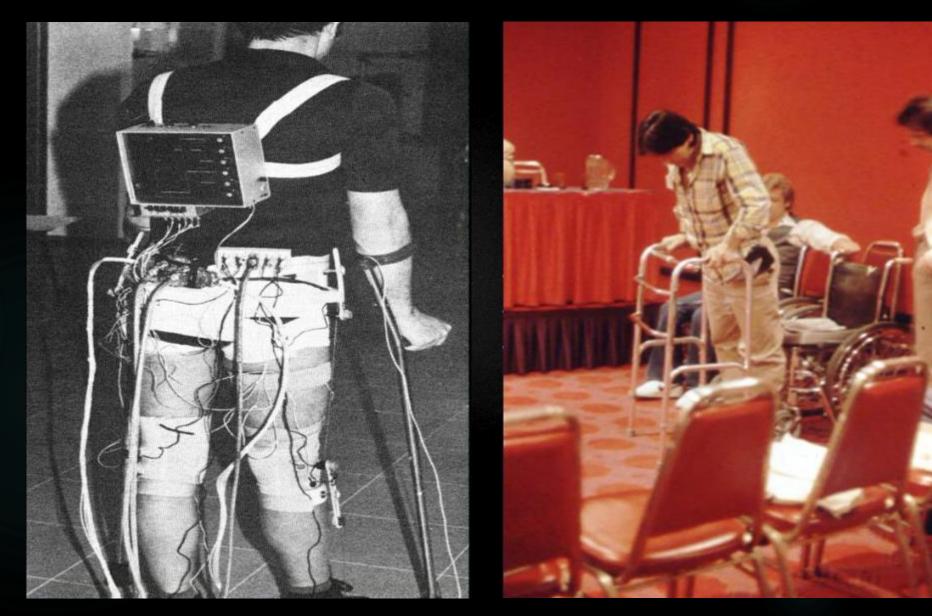




Omni-directional Wheelchairs



FES Walking



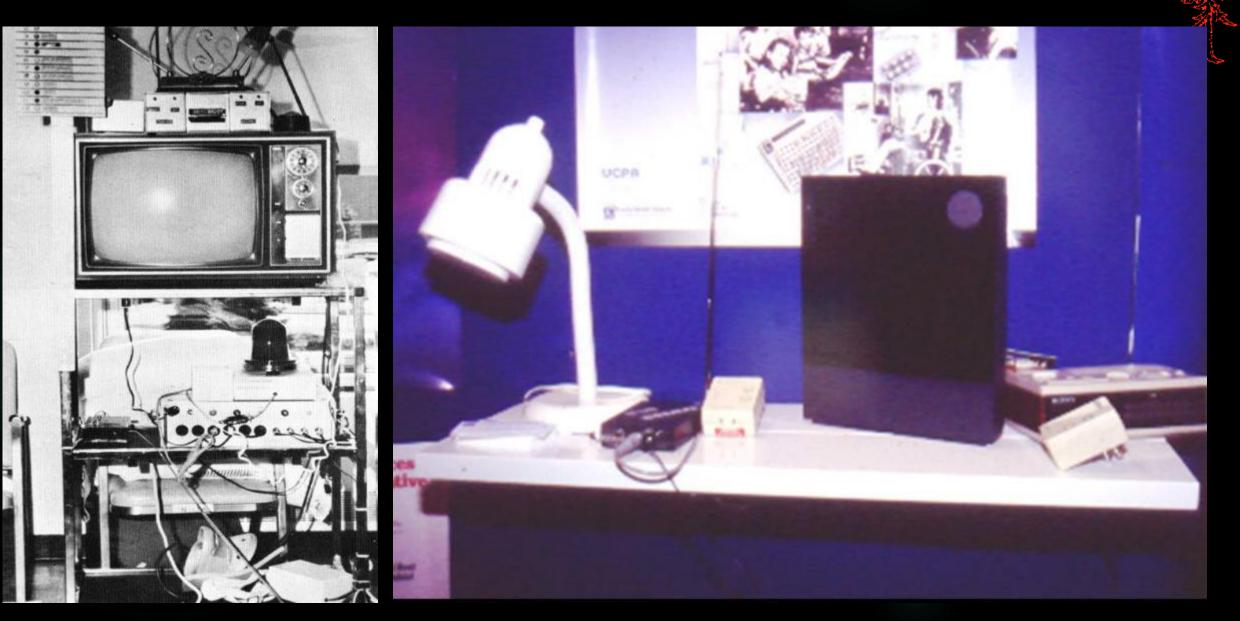
Chin Controlled Arm Exoskeleton



Robotic Feeding Aids



Early Environmental Control Systems



Eye Gaze Control





Augmented Communication System

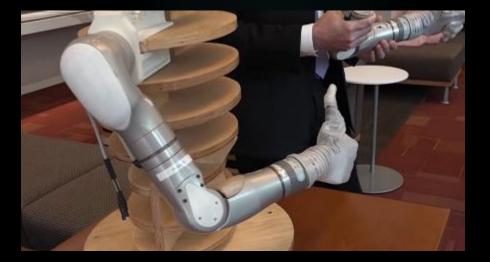


Augmented Communication System



Artificial Arm from 1560 - 1600





Peg Leg Bates





Wooden Prosthetic Legs



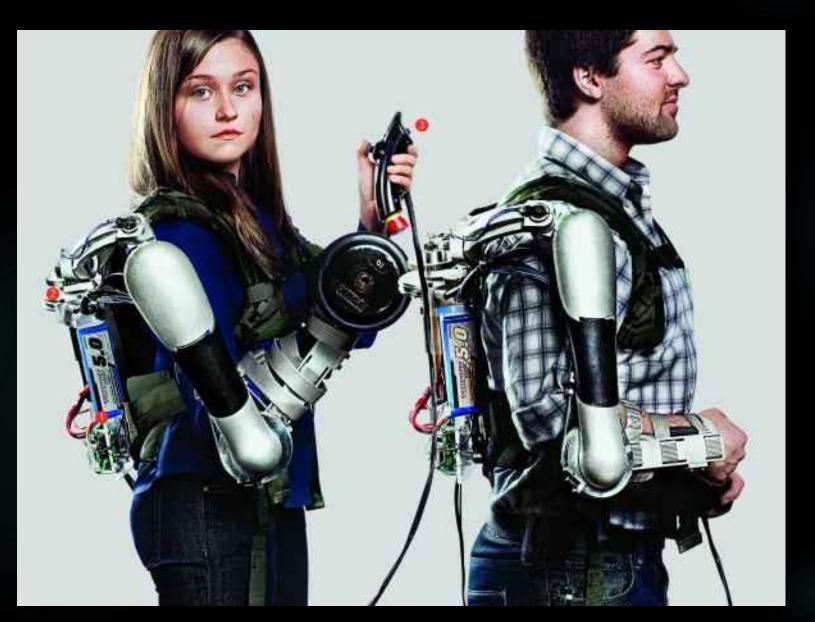


Hardiman Prototype - 1950s





Student Exoskeleton Arms



Ultimate Exoskeleton





Ultimate Hand Orthotic

Space, Time, Reality, Mind, Soul, and Power.



Thanos' Infinity Gauntlet



Steampunk Professor Xavier Wheelchair Project





Orange County Chopper

Christopher & Dana Reeve Foundation



Tuesday, February 8th



Mid-term Student Team Project Presentations

10 projects

Today





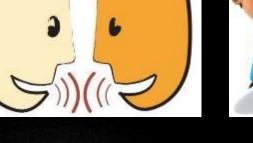
Accessible Making: Designing Makerspaces for Accessibility

Katherine M. Steele, PhD, MS

Assistant Professor in the Department of Mechanical Engineering – University of Washington

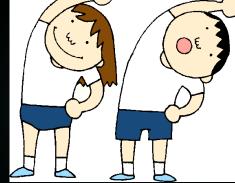
Activities

- Attendance sheet
- Evaluation Form
- Cardinal Course Feedback
- Stand up and stretch
- Take a bio-break
- Text message
- Web-surf
- Respond to email
- Talk with classmates
- Reflect on what was presented in class











Short Break



