Prosthetics & Cybernetics

RJ 14, Internet of Things: Sunday, 11:59pm
Ethical Analysis 2: Monday, 5pm

Bookkeeping

Wed 11/12	Prosthetics and Cybernetics *Quiz*	Armed for the Future Prosthetics for the Able-Bodied Prosthetics and Nerves Aimee Mullins' TED talk	Due **Nov 16, 11:59pm**: – RJ 14: Internet of Things Due **Nov 17, 5pm**: – Ethical Analysis 2
Mon 11/17	Internet of Things	What is the Internet of Things? Ethical Issues and the IoT Near-Term Security and Privacy Concerns	Due **Nov 18, 11:59pm**: – RJ 15: Privacy and Commerce
Wed 11/19	Privacy and Commerce		Due **Nov 23, 11:59pm**: – RJ 16: Technology in Prisons
Mon 11/24	Technology in Prisons		Due **Nov 25, 11:59pm**: – Participation Portfolio 3 Due **Nov 30, 11:59pm**: – Final Paper Worksheet Due **Dec 3, 5pm**: – Final Paper
Wed 11/26	**Lecture:** How to give a good presentation, what is expected from the final project presentation, and meetings *Students who miss this class are solely responsible for making sure they understand what is expected of them a*		
Mon 12/1	*Student presentations*		
Wed 12/3	*Student presentations*		

Uses of Cybernetics

Disabled, Able, and Super-Able

◆ Disabled:
  ◆ "Having a physical or mental condition that limits movements, senses, or activities."
  ◆ Compared to who? I can't lift 180 kg.
  ◆ 20-20 vision is comparatively new.

◆ Prosthetics: pacemakers, cochlear implants, bionic limbs, retinal implants

◆ Beyond able-bodied…
  ◆ For work: TALOS; EKSO
  ◆ For information: Google Glass
  ◆ For fun?

Possible Problems

- ◆ Philosophical concerns
  - ◆ Should we "improve on" people?
  - ◆ And how is accommodating disability different?
    - ◆ What basic assumptions are new in the last few hundred years?
    - ◆ 20-20 vision, good nutrition (height), straight limbs, …
  - ◆ What would a post-embedded-Glass world look like?

- ◆ Haves and Have-nots
  - ◆ Health care access
    - ◆ Location and physical access
    - ◆ Money and insurance

- ◆ What else?

Discussion

◆ Pick one question and form an answer as a group:

◆ Should people all be guaranteed the same access to devices? If not, why? If so, how?

~ or ~

◆ Should there be regulation or codes preventing people from using "super-human" advances? Why or why not?