## **Ethics in CS and the Impact of CS**

CS 64: Computer Organization and Design Logic Lecture #17

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## Lecture Outline

- Ethical Considerations in CS
- Code of Ethics in the Workplace
- CS's Impact on Society

Optional: Practice Exercises for Final Exam!

## **Ethics**

- Moral principles that govern a person's behavior
- Attempts to answer questions like:
   "What is the best way people to do something?"
   "What actions are right or wrong"
- In CS, it's not just about the obvious questions, like: "Is it ok to copy someone else's code and use it?" NO "Can I take this mouse pad from work home?"

"I mean, come ooooon, it's just a mouse pad..." NO!!!

## **Ethical Considerations in CS**

- Our work in CS affects people (why do it otherwise?!)
  - Ourselves
  - Our work colleagues
  - Our professional community
  - Society at large

### **Ethics in CS notes the following:**

- Our activities and choices affect other people in significant ways
- We have principles and guidelines that guide ethical action

## **Ethical Considerations in CS**

- Act consistently with the public interest, your clients, your employer, your colleagues.
- Make your products/services meet the highest professional standards possible.
- Maintain integrity in your work. Maintain a good reputation for yourself and your profession
- If you're a manager, promote an ethical approach to your work and your team's work.
- Keep bettering yourself through education

# Who Cares if you Aren't Ethical?

- Everyone does it's a "social contract"
- If you are not ethical, at best the following can happen...
  - ... your job will be at risk
  - ... your relationship with others will be at risk
  - ... you are likely to be negatively labeled as "unethical" in your professional circle
  - ... you will give "a bad name" to yourself, your company/employer, and to the field of CS in general
- <u>At worst</u>, you will have major financial/legal ramifications
  - Get fired (and possibly blacklisted)
  - Get sued
  - Get arrested

## **Professional Guidelines**

 The IEEECS/ACM Joint Task Force on Software Engineering Ethics and Professional Practices

"Code of Ethics and Professional Practice"

### Purpose:

- Documents the ethical and professional obligations of software engineers.
- Instructs us about the standards society expects CS professionals to meet.
- What to expect of one another.

### Code of Ethics and Professional Practice

#### **Lab 9 – Task 1**

- Read the IEEE Computer Society's article
- Then read a collection of case studies on ethics
  - Both on our class website
- Afterwards, go to an online form.
  You will choose which clauses from the code of ethics are more relevant to each case study.
  - Link on our class website

## The Impact of CS in the World

 What do YOU think Computer Science's impact in the world today is?...

## The Impact of CS in the World

- Today more than ever before CS enables us to make tools that help people:
  - Connect
  - Visualize information
  - Understand the impacts of environmental, economic, energy happenings
  - Collaborate and work together

# Google Talk at CSIT Conference

#### **Lab 9 – Task 2**

- View video of Megan Smith's talk at the 2010 Computer
  Science & Information Technology (CSIT) Conference about the Impact of CS Worldwide
  - Smith was a VP at Google and then the "U.S. CTO" and Assistant to President Obama
  - Link is on our class website
- Afterwards, go to an online form.
  You will identify the impact of CS in a variety of areas.
  - Link is... ahhh... you know where...

## Your To Dos

Lab #8 and #9 due end of day Friday!

