CSC 302 - Week 2

Only 9 more weeks :-)

Administrivia

- Hand in homework
- Hand back quizzes
- You've looked over the IEEE/ACM Software Engineering Code of Ethics
- You've read Chapter 1 and [2] of Baase
  - chapter 2 may be finished by Wednesday
- You've read Chapter 1 of Petroski's text (10 pages of riveting prose?)

Go over Quiz

- Note style and content
  - just like for textbooks, figure out your Professor and what s/he is driving at
    - in fact, I recommend you do some research about your Professors in general
      - where did they go to school?
      - what did they research?
      - what drives them - what do they have to teach you?

- I want to know you've done the readings
- I want to know you can do some analysis independent of the text and class discussion

IEEE/ACM Software Engineering Code of Ethics

- Put up webpage (it is in back of Baase too)
  - what do you think?
  - what are the main features?
    - how about IP enforcement?
    - is it ever mandatory to violate the law?
  - refer to this when you need some general principles

Baase Text as a Text

- Why did she write the book?
- Where does she work (check her webpage?)
- What is in Preface? Epilogue?
- Does she have a glossary?
- Does she cite your Professor?
- Note the Chapter structure

Baase Chapter 1, anything of interest?

- "Issues"
  - Unemployment
  - Alienation and customer service
  - Crime
  - Loss of Privacy
  - Errors

For Week 3

- Read Chapters 2 and 3 in Petroski's book
- Begin Chapter 4 Baase (look at it now :-)
- Discuss individual topic presentations (look at syllabus)
- Anticipate group formation next week
- Assignment: Baase 2.7 and 2.27 (think about 2.43) due Monday

Baase, Chapter 1

- "Themes"
  - Old problems in a new context*
  - Adapting to new technology
  - Global reach of the "net"
  - Tradeoffs and controversy*
  - Distinguish personal choice, business policy and law
  - negative and positive rights*

Baase, Chapter 1

- "Benefits"
  - the www in general: communication
  - autos and trucks
  - education and training
  - crime fighting
  - health and medicine
    - medical devices *
    - patient records
    - diagnoses
    - telemedicine

Baase, Chapter 1

- Tools for Disabled (ADA stuff?)
- Automation in manufacturing
- Identification, sensors and tracking
- Reducing paper and trash

Petroski

- What about the text?

- Chapter 1 "Being Human"

  – consider Engineering spirituality vis a vis the Creation Stories

  – "Science" studies the natural world

    - Engineers live in the "given" world
    - Simon "Design Science" ideas are new

Petroski

- Risks of engineering
  - new technology implies new risks
  - risk-utility analysis
    - requirements
      - cost
      - personal taste
      - inconstent
      - incorrect…..
  - code of Hammurabi

Petroski

- Things could be Engineered "10 times as strong"
  - for a price
    - time, money, effort
- Is this true for software and computing?