Day 22

Professional ethics

ACM, IEEE
Start 9.3.1
Going pro

- A professional is an expert in a field
- Customers rely on the knowledge, expertise, and honesty of the professional
- A professional advertises his or her expertise and thus has an obligation to provide it.
- Professionals must maintain up to date skills and knowledge
Professional Ethics

- Just because a something isn’t impossible or illegal doesn’t mean you should do it.
- Many professions have a code of ethics that professionals are expected to abide by.
  - Medical doctors
    - Hippocratic Oath → “Primum non nocere.”
  - Lawyers and judges
    - ABA Model rules of professional conduct
  - Accountants
    - American Institute of CPAs Code of Conduct
  - Bankers
    - FDIC Code of Conduct
PE for Computing Professionals

- Provides a general statement of ethical values
- Reminds people in the profession that ethical behavior is an essential part of their job
- Provides guidance for new or young members
- Association for Computing Machinery (ACM) and Institute for Electrical and Electronics Engineers (IEEE)

Software Engineering Code of Ethics and Professional Practice (jointly adopted by ACM and IEEE)
We as professional System Administrators do hereby commit ourselves to the highest standards of ethical and professional conduct, and agree to be guided by this code of ethics, and encourage every System Administrator to do the same.

**Professionalism** I will maintain professional conduct in the workplace and will not allow personal feelings or beliefs to cause me to treat people unfairly or unprofessionally.

**Personal Integrity** I will be honest in my professional dealings and forthcoming about my competence and the impact of my mistakes. I will seek assistance from others when required.

I will avoid conflicts of interest and biases whenever possible. When my advice is sought, if I have a conflict of interest or bias, I will declare it if appropriate, and recuse myself if necessary.

**Privacy** I will access private information on computer systems only when it is necessary in the course of my technical duties. I will maintain and protect the confidentiality of any information to which I may have access, regardless of the method by which I came into knowledge of it.

**Laws and Policies** I will educate myself and others on relevant laws, regulations, and policies regarding the performance of my duties.

**Communication** I will communicate with management, users, and colleagues about computer matters of mutual interest. I will strive to listen to and understand the needs of all parties.

**System Integrity** I will strive to ensure the necessary integrity, reliability, and availability of the systems for which I am responsible.

I will design and maintain each system in a manner to support the purpose of the system to the organization.

**Education** I will continue to update and enhance my technical knowledge and other work-related skills. I will share my knowledge and experience with others.

**Responsibility to Computing Community** I will cooperate with the larger computing community to maintain the integrity of network and computing resources.

**Social Responsibility** As an informed professional, I will encourage the writing and adoption of relevant policies and laws consistent with these ethical principles.

**Ethical Responsibility** I will strive to build and maintain a safe, healthy, and productive workplace.

I will do my best to make decisions consistent with the safety, privacy, and well-being of my community and the public, and to disclose promptly factors that might pose unexamined risks or dangers.

I will accept and offer honest criticism of technical work as appropriate and will credit properly the contributions of others.

I will lead by example, maintaining a high ethical standard and degree of professionalism in the performance of all my duties. I will support colleagues and co-workers in following this code of ethics.

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Guidelines

0 Include users (such as medical staff, technicians, pilots, office workers) in the design and testing stages to provide safe and useful systems
0 Respect privacy
0 Contribute to society and human well-being, realize that all people are stakeholders in computing
0 Avoid harm; consider potential negative feedback loops
0 Design with not only security in mind, but also social responsibility
0 Avoid and **report** conflicts of interest
  0 Self-dealing
  0 Nepotism
More guidelines

- Don’t assume existing software is safe or correct; review and test it
- Be open and honest about capabilities, safety, and limitations of software
- Require a convincing case for safety
- Pay attention to defaults: choice architecture
- Develop communication skills
- Do not expand bounds of acceptable risk
- Respect work required to produce new ideas (respect copyrights, patents, trade secrets, licensing agreements, etc.)