CSE 70: Ethics & Engineering Leadership

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ACM Code of Ethics

Read and understand

http://www.acm.org/about/code-of-ethics

Excepts on the following pages
(accessed March 10, 2010)
Excerpts from the ACM Code of Ethics (1/3)

1.1 Contribute to society and human well-being.
1.2 Avoid harm to others.
1.3 Be honest and trustworthy.
1.4 Be fair and take action not to discriminate.
1.5 Honor property rights including copyrights and patent.
1.6 Give proper credit for intellectual property.
1.8 Honor confidentiality.
2.1 Strive to achieve the highest quality, effectiveness and dignity in both the process and products of professional work.

2.2 Acquire and maintain professional competence.

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2.7 Improve public understanding of computing and its consequences.

2.8 Access computing and communication resources only when authorized to do so.
3.1 Articulate social responsibilities of members of an organizational unit and encourage full acceptance of those responsibilities.

3.2 Manage personnel and resources to design and build information systems that enhance the quality of working life.

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Engineering Leadership Traits (1/2)

- Maintain the highest level of integrity and ethics in all conduct.
- Have the vision to understand the issues facing society and how an engineering project can help address those issues.
- Have the breadth and depth of engineering knowledge to understand constraints and possibilities in developing an engineering innovation.
- Know how to assess the potential market and listen to potential users in order to look for additional opportunities for innovation.
- Have the ability to convincingly communicate their vision downward, upward and outward.
Engineering Leadership Traits (2/2)

• Know how to **prepare novel product proposals** and an accepted business plan.

• **Take risks** in exploring or inventing innovative designs and processes in order to meet challenging performance goals.

• **Accept personal responsibility** for developing an innovative project on time, to budget and to specification of the client.

• Understand how to **recruit, motivate, educate, empower, and engender loyalty** from team members.

• Possess a **passion and intellectual drive for life-long learning.**