Ethics and Professionalism

1. ethics

- a. the discipline dealing with what is good and bad and with moral duty and obligation
- b. a set of moral principles or values
 - i. a theory or system of moral values
 - ii. the principles of conduct governing an individual or a group

2. ethical

- a. of or relating to ethics
- b. conforming to accepted professional standards of conduct

3. Professionalism

The conduct, aims, or qualities that characterize or mark a professional person

4. Software Engineering Code of Ethics and Professional Practice

Developed by ACM/IEEE-CS Joint Task Force on Software Engineering Ethics and Professional Practices - http://www.acm.org/serving/se/code.htm

Short Version

PREAMBLE

The short version of the code summarizes aspirations at a high level of the abstraction; the clauses that are included in the full version give examples and details of how these aspirations change the way we act as software engineering professionals. Without the aspirations, the details can become legalistic and tedious; without the details, the aspirations can become high sounding but empty; together, the aspirations and the details form a cohesive code.

Software engineers shall commit themselves to making the analysis, specification, design, development, testing and maintenance of software a beneficial and respected profession. In accordance with their commitment to the health, safety and welfare of the public, software engineers shall adhere to the following Eight Principles:

- 1. PUBLIC Software engineers shall act consistently with the public interest.
- 2. CLIENT AND EMPLOYER Software engineers shall act in a manner that is in the best interests of their client and employer consistent with the public interest.
- 3. PRODUCT Software engineers shall ensure that their products and related modifications meet the highest professional standards possible.
- 4. JUDGMENT Software engineers shall maintain integrity and independence in their professional judgment.
- 5. MANAGEMENT Software engineering managers and leaders shall subscribe to and promote an ethical approach to the management of software development and maintenance.
- 6. PROFESSION Software engineers shall advance the integrity and reputation of the profession consistent with the public interest.
- 7. COLLEAGUES Software engineers shall be fair to and supportive of their colleagues.
- 8. SELF Software engineers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of the profession.

Ethics Cases Analysis

<u>Instructions</u>: Please read each of the cases that correspond to this form. Evaluate the ethical and professional issues indicated for each case by using the following criteria:

unethicaldoes not conform to an appropriate standard of ethical/professional conduct.not unethicaldoes not violate an appropriate standard of ethical/professional conduct.no ethics issuenot issues of ethical/professional conduct were involved.

<u>Case 1</u> :			
software engineer: Lewis not going begunethical	yond her immediate supervisor not unethical	no ethical	issue
superior: telling Lewis to ignore malfun unethical	nctions not unethical	no ethical	issue
Applicable parts of the SE Code: Comments:			
<u>Case 2</u> :			
project leader : Cruz implementing an ir unethical	ncomplete and inadequate systen not unethical	n. no ethical	issue
management: ordering the system into unethical	production prematurely not unethical	no ethical	issue
management: blaming the Cruz, the pro unethical	oject leader not unethical	no ethical	issue
Applicable parts of the SE Code: Comments:			
<u>Case 3</u> :			
president : marketing software that has unethical	bugs (defects) not unethical	no ethical	issue
president: marketing product with disclause unethical	aimer of responsibility not unethical	no ethical	issue
president : arguing that his action is ger unethical	neral industry policy not unethical	no ethical	issue
Applicable parts of the SE Code: Comments:			

<u>Case 4</u>:

information security manager: monito unethical	ring electronic correspondence o not unethical	f employees. no ethical issue
information security manager: informi unethical	ng management of abuse not unethical	no ethical issue
employees: using mail system for personal unethical	onal communications not unethical	no ethical issue
information security manager. failing to unethical	to ask management for rules on p not unethical	personal e-mail use no ethical issue
top management: failure to set rules ar unethical	nd inform employees not unethical	no ethical issue
top management: punishing employee unethical	s based on the content of their endot unethical	-mail no ethical issue
Applicable parts of the SE Code:		
<u>Case 5</u> :		
programmer : use of co-worker code unethical	not unethical	no ethical issue
programmer: use of commercial softwar unethical	re code not unethical	no ethical issue
programmer : failure to give credit to counter unethical	worker or commercial software con not unethical	ompany no ethical issue
management: unreasonable expectation unethical	ons of programmer not unethical	no ethical issue
Applicable parts of the SE Code:		

Case 6:		
hacker: initially looking for and ac unethical	cessing an on-line computer not unethical	no ethical issue
hacker. using someone else's nan unethical	ne to access the financial service not unethical	e no ethical issue
hacker: gaining access to and exa unethical	mining the financial services not unethical	no ethical issue
bank officials: not providing sufficient unethical	cient protection for improper use not unethical	of their services no ethical issue
Applicable parts of the SE Code: _ Comments:		
<u>Case 7</u> :		
Roberto: waiting until the last wee unethical	ek to start the project not unethical	no ethical issue
Roberto : getting clarification form unethical	a classmate not unethical	no ethical issue
Roberto: looking at the classmate unethical	e's project not unethical	no ethical issue
Classmate: letting Roberto look a unethical	t his project not unethical	no ethical issue
Professor Barnes . Giving a vague unethical	e and confusing problem not unethical	no ethical issue

not unethical

Applicable parts of the SE Code: Comments:

Professor Barnes. not giving help to Roberto

unethical

no ethical issue