


Assignments

Build Content

Assessments

Tools


Partner Content


About Assignments

Availability: Item is not available.

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- To use the Assignments content area, click the action arrow for Assignments on the course men
- Select Show Link to unhide the link.
- Add content (tests, assignments, etc.)


S17 CMPE349 TSR01

- **One high-quality requirement**
- **One requirement that could be improved, with recommendation for improvement**
- **Verification method for high-quality requirement**
- **Operational view artifact (SBD, IEM, MSD, OSD)**
- **One functional level artifact (DFD, FFBD, IEM)**
- **Due Thursday at 11:59 PM – Team Assignment**

UMBC CMPE450 Capstone I

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Codes of Ethics

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Technical Requirements...

- ...are the requirements on what our projects must accomplish
- What are the requirements on us, as we perform our tasks as engineers?
- How do we decide what the right actions are in specific situations

Personal Behavior?

- How do we, as individuals distinguish between good and evil, right and wrong, virtuous and non-virtuous.
- ...and how might those distinctions apply to our work

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- **National Society of Professional Engineers (NSPE)**
 - **Institute of Electrical and Electronic Engineers (IEEE)**
 - **American Society of Mechanical Engineers (ASME)**
 - **American Institute of Chemical Engineers (AIChE)**
 - **American Society of Civil Engineers (ASCE)**
 - **Biomedical Engineering Society (BMES)**




National Society of Professional Engineers

- **I. Fundamental Canons**
- ***Engineers, in the fulfillment of their professional duties, shall:***
- **Hold paramount the safety, health, and welfare of the public.**
- **Perform services only in areas of their competence.**
- **Issue public statements only in an objective and truthful manner.**
- **Act for each employer or client as faithful agents or trustees.**
- **Avoid deceptive acts.**
- **Conduct themselves honorably, responsibly, ethically, and lawfully so as to enhance the honor, reputation, and usefulness of the profession.**


IEEE

- We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:
- **to accept responsibility in making decisions consistent with the safety, health, and welfare of the public**, and to disclose promptly factors that might endanger the public or the environment;
- **to avoid real or perceived conflicts of interest** whenever possible, and to disclose them to affected parties when they do exist;
- **to be honest and realistic in stating claims or estimates based on available data**; ...

- **to reject bribery in all its forms**;
- **to improve the understanding of technology; its appropriate application, and potential consequences**;
- **to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience**, or after full disclosure of pertinent limitations;
- **to seek, accept, and offer honest criticism of technical work**, to acknowledge and correct errors, and to credit properly the contributions of others;
- **to treat fairly all persons** and to not engage in acts of discrimination based on race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression;

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- **to avoid injuring others, their property, reputation, or employment by false or malicious action;**
 - **to assist colleagues and co-workers in their professional development and to support them in following this code of ethics.**

ACM General Moral Imperatives

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- **As an ACM member I will**
 - **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.**
 - **1.7 Respect the privacy of others.**
 - **1.8 Honor confidentiality.**

ACM Professional Responsibilities

- **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**
- **2.3 Know and respect existing laws pertaining to professional work.**
- **2.4 Accept and provide appropriate professional review.**
- **2.5 Give comprehensive and thorough evaluations of computer systems and their impacts, including analysis of possible risks.**
- **2.6 Honor contracts, agreements, and assigned responsibilities.**
- **2.7 Improve public understanding of computing and its consequences.**
- **2.8 Access computing and communication resources only when authorized to do so.**

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Some personal observations

- **The various codes provide us the framework**
- **...but the actual implementation is a day to day**
- **...or even minute to minute thing**

- **Ethical decisions appear without notice in the course of your everyday work task**
- **No warnings...near instant response.**
- **You won't always get it right...**
- **...in which case you need to learn and move on.**

ISR01 Due Sunday 11:59 PM

Write in tech note form

Space and a half

No more than two pages

Organization?

Intro – Discussion – Conclusion/Summary

**“Tell ‘em what you’re gonna tell ‘em; tell ‘em;
tell ‘em what you told ‘em”**

Mary Ann Hopkins, DHS, 1968

- **Choose a Code (NSPE, IEEE, ACM or other)**
- **Apply that code to the VW TDI Emissions Standard.**