

Area of responsibility	Definition	NSPE Canon	Question 1	Question 2
Work Competence	Perform work of high quality, integrity, timeliness, and professional competence.	Perform services only in areas of their competence; Avoid deceptive acts.	<p>The ACM encourages engineers to look for people who are competent in a field that those engineers are not competent in.</p> <p>The NSPE is more vague in this area. It just says that engineers should avoid deceptive acts</p>	Medium: We review our code before releasing it. We also try to hit our weekly goals.
Financial Responsibility	Deliver products and services of realizable value and Act for each employer or client as faithful agents or at reasonable costs.	Act for each employer or client as faithful agents or at reasonable costs. trustees	The ACM specifically mentions that software projects should be finished in a reasonable cost within a reasonable time. The NSPE does not mention technical projects.	Medium: We want to be very efficient by finding and working on what works and dropping what doesn't.
Communication Honesty	Report work truthfully, without deception, and understandable to stakeholders.	Issue public statements only in an objective and truthful manner; Avoid deceptive acts	The IEEE encourages engineers to be honestly critical about technical work. The NSPE never mentions	High: Try to communicate with users to try to solve their problems and be honest when we fail to solve their

			criticizing technical work.	problems.
Health, Safety, Well-Being	Minimize risks to safety, health, and well-being of stakeholders.	Hold paramount the safety, health, and welfare of the public	The NSPE does not mention anything about not discriminating against people by race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression, but the IEEE code of ethics does.	Medium: We want to manage our time well so that we don't fail our other classes by putting too much time on this project.
Property Ownership	Respect property, ideas, and information of clients and others	Act for each employer or client as faithful agents or trustees.	IEE makes sure The ACM focuses on the issue of plagiarism and giving credit where it is due.  NSPE: Focuses on the ideas of the client.	Medium: We try to give contributors credit for parts of the project that they spent the most time on.
Sustainability	Protect environment and natural resources locally and globally.		The NPSE talks about the environment and social costs.  IEEE focuses on the technical definition of sustainability like maintaining code or	High: Our project needs to be maintainable. We want people to be able to understand the compiler and to be able to extend it.

			hardware.	
Social Responsibility	Produce products and services that benefit society and communities.	Conduct themselves honorably, responsibly, ethically, and lawfully so as to enhance the honor, reputation, and usefulness of the profession.	<p>The NSPE focus more on the management side of the social responsibility, like not bad mouthing other engineers</p> <p>The ACM focuses on the technical side of social responsibility. Things like communicating clearly to fellow engineers about designs and implementation of technology.</p>	<p>Medium:</p> <p>We want to</p> <p>Medium: benefit the programming community by educating new students how programming languages work.</p>

**Q4)** We agreed on most of the areas. The categories in which we did not agree was work competence. This because we each had different ideas about what work competence means. One of our team members thought our work competence was low because we have never implemented a programming language before. The rest of us thought that our work competence was high because we are seniors, so we are very competent with working on large projects because all of the projects and programming assignments that we have worked on at Iowa State and at internships have prepared us for working on this project. I did not change my answer because I believe that we are competent enough to do this project.

**Q5)** The most important area which our team is proficient at is communication and honesty. This a very important responsibility because we need to work well as a team; and good teamwork requires good communication.

An example of our team maintaining good communication was a case a couple of weeks ago where I was the only one working on the project. We were just starting on the project, so the other members did not know a lot about how programming languages are implemented. They

told me that my code was not documented; which made it very hard to read. I was then able to change my programming style so that my code could be more readable.

**Q6)** We haven't been focusing much on sustainability, but we have been getting better, We have been cleaning and commenting the code. We have also made a testing branch. Sustainability is not a priority for us at this time because we are still trying to get the project off the ground. As the project becomes more mature, we will spend more time emphasizing sustainability.