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SE 494

Cumulative Reflection

Reflect on your 4-year experience at Iowa State University. Remember to highlight things like your ability to communicate, utilize your engineering knowledge, and function within teams as well as what is highlighted below. Here are some questions to answer as a part of your reflection:

1. How do you think ISU has prepared you to:
   1. Design systems or processes?

ISU has prepared me on design systems and process through the start of my degree in Software Engineering. For my first class, Cpre 185, I learned to setup a low-level C program to get data off of a controller. In Cpre 281, I learned Verilog design and to connect gates to make complicated systems.

* 1. Formulate and solve engineering problems?

ISU has prepared me to in solving problems in almost every class. The Software Engineering major focuses on this exact problem.

* 1. Impact engineering solutions in a global/societal context?

My general electives have made sure to tie in global/societal context. My English 314 class taught me how I can use memos and language to help any problem or project I may have. My project class have helped push applications in helping people. For example, we created an application that help people navigate in different weather conditions.

* 1. Consider ethical implications of your engineering decisions?

In almost all junior and senior year classes, we had an ethical discussion. Especially, the Volkswagen issue in lying in their data. These engagements have pushed my thought process of the industry. It has prepared me for possible industry decisions which may lie to the customers or government. I am making sure

1. What things have you done at ISU to prepare you to:
   1. Work in groups?
   2. Recognize contemporary issues?
   3. Understand professional and ethical responsibilities?
2. In class projects & problem solving tasks, did you draw upon information, research or experiences beyond what was provided in class to successfully complete your work? Please state which resources here and how they helped you to complete work (e.g. library resources, specific professional journals, experts in field, other students).
3. How did learning activities outside of the classroom (required 124.5 credits), such as Student Orgs, Career or Study Abroad Fairs, Undergraduate Research Experience (REU), or other university programs help you to understand the importance of Lifelong Learning?
4. Have you started to undertake any new learning to improve your ability to apply skills or knowledge to new problems and to develop confidence in taking risks? Please explain.
5. In the context of the first four questions, if you were to do your undergraduate work again, what things would you change?