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MET 350

Eportfolio Reflection

This semester has been very eventful as far becoming an engineer goes. In MET 350, we learned about cycles involving air conditioning and refrigeration, gas, and vapor. Thermal Applications was one of the more practical classes taken in the engineering curriculum. In the course there were three main sections: refrigeration, gas, and vapor. We learned the importance in developing P-v and T-s diagrams in order to solve for different states in a specific cycle. In the refrigeration unit It taught me how to compute the work done during a process, determine heat transfer between systems, how to work with pure substances and find their properties. The gas cycle unit analyzed both open and closed power cycles and evaluate the performance as the fluid works as a gas throughout the cycle. In the vapor unit we found studied how pressure and temperature manipulate vapors and affect the behavior of a cycle. From taking this class it has allowed me to see the world and the technology created from thermal applications differently. The Eportfolio will guide you through the work I have done over the semester in Thermal Applications. If you look under classes you will find a section for MET 350. Here is where you will find my homework's, tests, and reflections on the test and eportfolio work done this semester. as far as my engineering career I feel I improved most with finding necessary information to solve for the unknown. I feel this class gave me the basic knowledge of what I will need as an automotive engineer designing motors. As of yet I have not used what I have learned outside of the classroom but am eager to start doing so. I see the information learned in the course being used for HVAC, the automotive industry, or any other industry where energy is a factor. I feel I improved on my ability to find information. This came from learning not to over pursue a

solution and improving my critical thinking skills. If I was starting this class over, I would tell myself to talk to the professor and be more prepared for the class as a whole. It is easy to get lost and the professor will want to avoid you being confused as much as possible. Also, I would find a group I would say my biggest accomplishment is when I understood how to find the states of a cycle. Even though its one of the more basic lessons, it was another step forward to my career. Begore taking this course I thought it would be a challenge, after taking it my thoughts were confirmed. I had a break between Thermodynamics and Thermal Applications and so that added to the difficulty of the class. I do feel that I have learned much over the semester, I do not feel as if I “mastered” any skills in particular yet. I found my strength to be my skill on navigating through the properties of substances used in cycles while I still struggle with what equation to use. Overall, I am content with my experience and what I learned in this this past semester.