

Jean Gonzales

Final Project Reflective Letter

Engineering Team

To my instructor and the institution,

I'm writing this letter to inform the engineering team that my work meets the standards for this course. I have learned a lot throughout this semester, it was difficult but it was not impossible to finish. When it came to the learning process the professor was able to provide multiple feedbacks and sources to help every student out. He provided homework, this is used to benefit us in the long run and explain why he did that. I was able to develop first and second law of thermodynamics and different thermal systems. Thermodynamics played a big role to this class because it involved gas turbines engines, cycles and more. The class demonstrated my work with the course learning objectives. I was able to broaden not only for thermal use but into air conditioning process as well. I have a clear understanding of the basic operating of the cycles and was able to learn how to used the Psychometric chart.

For the final project was design to be created by myself and how it should be created. I was hired to design a HVAC system for a consulting company. The only mistake for this final project that I probably made was not having enough time for this project. I encountered numerous issues during the project such as the information that was given to us. I troubleshoot it was using the textbook, re watching the lecture videos; definitely re-watched the last lecture video. The only way I could have completed this final project was after work with the Navy. I was away from school and VA due to active duty orders. There was no way I could have changed this. Engineers use these concepts into designing HVAC system everywhere, from homes, buildings, factories and more. HVAC system is used everywhere for our comfortability.

Everything I learned will be used in any professional job that will require the use of HVAC system. Especially on the Navy ships we have to maintain a proper working HVAC system inside or else the work environment will not be completed efficiently. I spent everyday after work on this final project, since this was the only time I could manage to work on this project. Spending quite a few hours everyday to try and knock out a lot of calculations and format out. There is no possible way I could have differently because work in the Navy is what I have to focus on more because if done wrong it could endanger others. Therefore, after work my focus was on this final project.

Yes, I believed what I learned is very important to my professional career. Since HVAC is everywhere around it is very important to make sure we know what is around us and how the air conditioning process works. This information will be used on the ships, my home, my jobs and it will benefit me because I will have knowledge on them. Yes, I have always been applying concepts I learned in school to my work, and that is problem solving and critical thinking. Thermodynamics somehow play a factor when it because 1st law was first introduced to us and was needed for this final project. I felt where I were most successful was during creating the formal of the final project, and figuring out the beginning part of the design. It will really varies if this content will play a role in my field or career, but I do not know what the future has to come for me.

If I were to take this class again, I know that this class is very difficult therefore a lot of studying and time will be needed for this class. To ensure I have a successful semester I will use all available resources given to me. After taking this class I can definitely see a change of improvement in myself as a engineer. My biggest accomplished in the course is that I made it this far, without dropping it. Skills I master in this class is writing out the processes for each state, we did a lot of that in our homework's and test. My strengths is that I had some knowledge's already when it came to the Otto Cycle and gas engines due to my civilian job; weakness was that this class was so difficult I was also taking Fluid Mechanics with him as well which made both classes twice as hard to complete but I made it happen. I came to this course before the semester that it will be a easy class, but now that it is over I feel very relieved it is completed. There were may nights where I just wanted to give up with many circumstances but I did not give up. So to whom this letter may concern, I just want to say thank you for challenging me and working with me.

Very Respectively,

Gonzales, Jean

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