PROFESSIONAL REFLECTION

CS: 200

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**Reflection**

The topic I chose to focus on was robotics. Robotics is the engineering side of technology that deals with the creation of construction and operations for robots. This means writing the algorithm or code that the robots will follow to complete tasks. The potential applications for robotics are seemingly endless in this day-and-age. One company who is leading the way in innovation is Boston Dynamics. They have multiple revolutionary designs that will soon be impacting many different industries within the coming years. Manual labor will soon be replaced by highly efficient and cost-effective robots.

Robotics will affect a wide variety of industries within the coming years, in fact, they already have robots that are flipping hamburgers for fast food chains. To think that the implementation of robotics in industry will not be happening within our lifetimes, would be foolish. The future of robotics is tightly wound with the future of humans, as we will continue seeing growing integration in all industries. It is not only limited to industrial revolution though, robotics will affect the medical field, hospitality, and the food service industry.

The importance of control structures and algorithms that I learned in this class will be carried with me throughout my chosen field of study, robotics. I can only speculate but I can imagine that control structures are used all throughout robotics. The more I learn about programming, the more I can picture that robotics will involve setting limitations throughout your code to act as parameters or guidelines for the robots. Learning to incorporate our own daily functions into algorithm that the robot can read and understand while operating under the control structures we set in their code, will require tedious studies of control structure properties. The information learned this semester will be invaluable as I progress. My plan is to use my degree to get a job working with robots that are intended to replace the service industry. I have an extremely diverse background in the restaurant industry, and I feel like I could have an

immediate impact in that field of robotics. After that, I plan to move into the field of national defense robotics and begin designing something suitable enough to send out instead of our fine soldiers.

Occupational opportunities are rapidly becoming available for anyone in the robotics field. After doing research on the opportunities available to a student like me, I have decided that robotic engineering is a field that deeply interests me. While I was on the website learning more about Boston Dynamics robots, I also browsed through the available jobs link on their website. With a Bachelor’s Degree in Computer Science, you can apply for an entry level software engineer job and get a foot in the door to begin your career. The best way to prepare for a career in this field would be to constantly practice coding, to work on making it your “first” language. For someone like me, coming from a background lacking experience, this would be a good first step to take towards my career. Eventually leading me towards my goal of starting my own national defense robotics company.