

Demeke Dessie

EECT 280

Dale Deroche

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### Internship reflection

During the spring 2019 semester I have been fortunate enough to have an internship opportunity at WEG Commercial Motors in Bluffton, Indiana. It has been an amazing experience for me. This opportunity has helped me grow personally and in my education. I have been able to use what I have learned so far apply it in the real world. But more importantly I have learned so much while working alongside people who have the same interest as me.

During my time at WEG, I worked as a mechanical engineering intern and my responsibilities were redesigning electric motors and motor parts like shafts, rotors, rotor cores, gears, and motor shells per customer requests. The electric motors the company make are mainly for specific customers and every time the customer wants to change something on the motor, their request comes to the engineering department to be redesigned. So, I would receive the request and make changes on the existing design. After I make the changes, redesigned parts go through a workflow system where each department go and look at the design before it is released as a final print. I was able to use my SolidWorks and Auto CAD knowledge to do that.

Sometimes the changes we make on the motors would be as simple as changing the dimensions but other times, we would have to change the entire orientation and specification of the motor. While doing this I learned how designing can be a constant improvement process for better outcome and efficiency. I also learned how to be detail oriented person. Every dimension and every change we make on these designs matter. Having one significant digit wrong can cause problems so I had to pay attention to every small thing.

I learned how to work with team. In the beginning I had a very small knowledge about electric motors and I had to ask and learn about it from the people I worked with that has been in the company longer. I improved my communication skill both verbal and writing which is key when working in bigger work environment.

I also worked in the lab testing department for a few times. The lab testing department is all the motors get tested. The test includes lifetime, noise, power output, vibration, etc. I got to use some great lab equipment and learned what to look for when doing lab test.

Working with engineers also helped grasp a good understanding of what engineering is. Engineering is problem solvers and I have been inspired by the group of engineers I had a chance to work with. Their mind set is always positive. They are always thinking about how to solve problem, improve every time, and be efficient with their work.

It has been an amazing experience and has definitely motivated me more to continue my engineering degree. I am excited to apply my work experience into my education and be prepared for the real world.