March 12, 2014

Dear Sirs/Madam,

Every day and everywhere there is technology, from the biggest computer in the world to having to view your home phone screen on a pair of glasses, there is advancement. But, with all great inventions there are people known as technicians that have the proper background to troubleshoot, repair and install such inventions. A degree such as Electrical Engineering Technologies at New York City College Of Technology, ABET accredited will fulfill this purpose. This degree allowed me to gain the skills and knowledge that would allow me to test, troubleshoot, and even create circuits that will eventually contribute to new ideas.

In the field Electrical Engineer Technologists work together with their sisters'. This will include problem-solving and implementing solutions. A degree such as this will allow us to provide our input by being responsible for transforming a schematic into a physically product, having to test and troubleshoot the product that we have done, etc. Electrical engineer technologists are more hands-on and technical the theory that they have learned will be brought to use by the being in team such as this. To gain a grasp of what a electrical engineer technologist does in terms of work ethics and such get a internship because while in school a internship will be the closest thing that you will get to being on a proper 'job site' intended for technologists.

Currently, as a holder of an Associate level Electrical Engineering Technologist, I have a strong background in:
- applications of theory;
- applications of analysis;
- designing schematics;
- test and troubleshoot circuitry;
- programming microcontrollers

Having a background such as this, has allowed me to design and development circuits. Such as a low-watt amplifier. The objective was to create and design your own amplifier. Of course, in order to start I had to do the proper calculations and determine what type of capacitors, and resistors I would need. Once finished with the schematic, I moved on to the actual implementation of the schematic onto a copper fill board known as the Printed Circuit Board. I had drawn my schematic on the board with a sharpie and put it in solution. Once the solution has gotten all the copper off, I was ready to insert my components. Having an experience such as this, has given me an insight to the work area and the different aspects which comes into play when working in a field such as this.

I have also participated in department events, such as the Engineering Expo in White Plains, NY, I was part of a team that had programmed and designed a solar panel to track the sun and charge up rechargeable batteries. In order to demonstrate this to prospective students there were two loads that were connected a USB hub and speakers. These two loads did not have any external battery source, they were both being powered by the solar panel.

These are only two projects that I have either been a part of or have constructed myself, there will be more projects in the future to be completed. But as you can tell without the proper background and the proper training (labs) one cannot beginning to justify where to beginning on projects.

Such experiences have allowed me to become confident with my knowledge of circuitry and design that I have an internship at the MTA Electronics Maintenance Division. The work that I am completing at this internship is similar to what I have done in my labs and therefore I know that this degree is valuable. It teaches me exactly what I need to know in order to succeed at the workplace of my field.

A degree such as this will allow you to be able to work in various sub-systems in electrical engineering technology field such as embedded systems, telecommunications, etc. Now the reason that this type of degree can go into these sub-systems is because the all require schematics, applications that need to be tested as well as troubleshooting. Our thinking process requires a list of subjects that we are suppose to know thoroughly. Most of the time you think out of the box due to the fact that problems aren't so much in facts. Theory can only get you so far. Having laboratory times will greatly influence your chances of understanding how to approach problems if they occur in the worksite. At times to enjoy your knowledge you will need to fail, having to fail the first time on a new project will allow you to gain the skills that are necessary to have in a job like this.

Sincerely,

Amreen Akbar