

Since I was in high school, all technological activities were interesting to me. I was always amazed at how science explained the phenomenon of why things happened and most specifically physics. The desire and interest in embedded systems & Robotics started when I began participating in the science and engineering fair contests in our zone. I did projects and I was happy that science could be made to work in the physical world.

My area of interest is in embedded systems and Robotics design, programming and fabrication. I have worked on various embedded systems using the arduino microcontroller. I have also made simulations using the SCRATCH application. In my undergraduate studies, I did a project entitled "Microcontroller Based Variation of Intruder Alert Systems". In the project, I proposed on how to make intruder alerts more effective. My objective was to allow intruder systems detect how far the intruder is from the system and produce an alert and control mechanism that is proportional to the distance. Using a microcontroller, I designed a prototype of the device and I was amazed at how it was able to solve the problem at hand.

My objective is always be part of the major contributors in the automation world in the electronics, industrial, medical, production and security sectors and much focused on being more innovative with every new day.

I wish to pursue a program in Masters in Electrical and Computer Engineering / Robotics Engineering with a specialization in Electronics systems fabrication, Very Large Scale Integrated Circuits and robotics design, programming.

I have participated in an internship opportunity: PDTP Internship under ICT Authority. I got the privilege of getting various training including Internet of Things, project management and technical support. From the training on Internet of Things, I gained the desire to advance my skills in embedded systems. I was able to appreciate the fact that IoT consists of three major components; hardware side, software side and the cloud. I also appreciated the fact that smart systems are needed across all sectors of life including healthcare, transport home automation among many more sectors. The training was however on basics and was conducted online. It gave me the basic concepts and the push and desire to know more.

Microprocessors and microcontrollers are the backbone of any intelligent embedded system and robotic system. I wish to have an experience with a variety of microcontrollers and microprocessors. I have in the past made simulations of electronic systems using simulation software. I desire to go a notch higher and participate in a real-time design & implementation fabrication. The training will also give me an in-depth understanding of the architecture of various Integrated Circuits and enable me to learn how to program robotics systems using various methods (online and offline).

I have the desire to also get networking skills to allow me to enable communication between my embedded systems with the cloud.

The US has hi tech embedded system companies like Intel. The experience that I would get from these companies would give me the skills that I require.

Kindly consider my application.