

# Computers towards understanding and realization of the principles

[Business](#), [Industries](#)



Computers and electronics are an integral part of modern society and continue to impact an ever growing number of aspects of our everyday lives. As a student of Computer Science and Engineering the desire to improve my technical skills and to become a worthy professional inspires me. The M. Engg in Electrical and Computer Engineering program's comprehensive approach towards understanding and realization of the principles of Computer Engineering is what galvanized me to apply for the course. It reinforces my passion for computers and software applications. I developed an interest in computers from a young age from gaming as a young boy to assembling my first PC and have sustained my interest in computers with the same zest and vigor while pursuing my Bachelor's in Computer Science Engineering.

My initial encounter with computer programming occurred in middle school where I wrote basic program codes in C. My predilection towards programming became quite apparent in those days and dictated my decision to pursue Computer Science and Engineering for my Bachelor's degree in the following years. I thoroughly enjoyed my studies in college which comprised of subjects such as Data Structures, Algorithm Design and Analysis, Java Programming in which I excelled and Software Testing and Quality Assurance, Machine Learning in which I secured top position in my class. I feel further exploration into the realm Computer Application is the best path for me to choose. For the final year project in college we were asked to undertake the development of a project in a team of 4 students.

My team and I made sure that our project incorporated skills, knowledge pertaining to different major subjects that were taught to us in college, solved

real life problems and implemented modern development techniques. In creating HomeDroid ( home security and automation system) we faced a fair amount of challenges which impacted the moral of my teammates but I took it upon myself to overcome these obstacles and continued to explore OOPS concepts and methodologies deeply, my teammates chipped in with some useful insight at the same time, my intuitiveness helped me in programming effectively which made the code more efficient; it was the need of the hour for the reason that we had chosen Arduino Mega 2560 which was economical but at the same time had limited physical resources as our central microcontroller. It provided automation and security functionality at the fraction of cost of modern mass produced solutions. After early hiccups, eventually, HomeDroid proved to be a resounding success which earned us praise from teachers and fellow students alike. Apart from HomeDroid, I have worked on live projects such as musejam.

com, where I interned as a web developer that particular experience also taught me how to use incredibly useful tools and frameworks such as Git, foundation, bootstrap and Angular JS. In the following year I completed an industry oriented certificate program in Python with Django, where I created a user friendly website for students to view their university result by implementing advanced data crawling scripts. These experiences have equipped me with qualities that are professionally indispensable like team management; leadership; collegiality and punctuality.

Besides studies, I have extensively participated in techno-cultural fests besides being an active member of the college literary society and an editor

of the English section of the college magazine. I have also organized and participated in multiple inter and intra college events. Sports such as football, table-tennis have ingrained in me the spirit to take on challenges with the idea to come out on top but also to take defeat in my stride and face the next challenge with even more enthusiasm and drive. I will inculcate this attitude with my future classmates at Carleton University. These characteristics are a testament to my versatility and will surely help me in pursuing my graduate study goals. However, despite my varied and rich involvements, hard work and education, I realize there are gaps in my knowledge that need amelioration, which impasse me to pursue M. Engg in ECE from Carleton University. I want to overcome this shortcoming by studying under promising faculties of the world.

The experienced CS faculty comprising of experts such as Dr. Jessica Chen, Dr. Christie Ezeife and Dr. Jianguo Lu at the Carleton University along with excellent lab infrastructure including Warehousing, Object-Oriented and Databases Lab, Software Engineering Lab Algorithms, Speech Processing and Advanced Research Techniques Lab at Erie Hall will provide me with the opportunity to not only expand my engineering knowledge but will also give insightful industry oriented dimensionality to my studies. Carleton University's course matches my outlook and will help me in achieving my future career goals. The experience at Carleton University would arm me with knowledge and skills to bring theories from books to life, give me a strong technical footing apart from honing my skills and ideas.