The world is progressing fast, there are new products needed to match the requirements of this progress. We use of maths and science to solve problems and create new products and services. As an electrical and computer engineer I will work at the heart of the most rapidly developing technology humankind has ever seen.Electrical and computer engineering is at the heart of most current technological breakthroughs. Any device with an energy or IT component is derived from ECE knowledge. From providing accurate medical diagnoses at a distance to exploring distant planets, ECE plays a crucial role. This dependency on ECE motivated me to pick this department.

I have always aspired of doing something innovative. I remember my childhood days when I always had the urge to know what was inside my toys and gadgets and how it worked ,So naturally I had to open them and hence none of them survived for more than that of 2 or 3 days after its handover to me. From a simple pen to the most complicated remote-control cars nothing was left unrevealed by my inquisitive and intrusive mind that ‘how it works! how it moves!’. I was announced as a destructive child, who cannot spare anything but no one understood my pursuit in knowing the reason how things work. In my childhood whenever I saw a plane fly by, I was quite intrigued as to how it was similar to a bird, yet so different. Observing a computer or a calculator mimicking my own brain and performing calculations in a similar way or a robot performing the same task as I do, simply amazed me. As I grew older, some of these mysteries began clearing while new ones kept coming up and my romance with technology grew stronger day by day. I was a kid who had always been thinking out of the box and always been thinking ahead of my time which people never believed in me , one such instance was when I told that I would make a device that would tell me what it is when I point camera towards the object(currently called as reverse image search),many more ideas run in my mind .I had no proper platform and thought process to put my ideas into life which I tried my level best. I was academically outstanding throughout my school life, always featuring among the top students of my class. I have always had a strong inclination toward mathematics and sciences; I finally decided to go for engineering to calm my thirst but understood I have learnt are just a few drops in an enormous ocean of knowledge. My decision to pursue Masters and later my Doctorate is a natural consequence of my desire to gain as much knowledge as possible in my field of interest and help myself to able to achive and put my wildest dreams to life. The degrees I accrue are more of a consequence than the final goal.

The progress in the field of automation,robotics,signal processing,and the reliance of every field in this present generation on this field, and my background of being strong in mathematics and physics made me choose Electronics and communication in my under graduate studies ,and this gave me a quest of learning more and creating a world that is easy to live in and my strengths of mathematics ,signal processing and coding interests me about this field.The seminar I attended on 5g conducted by nokia and the training I attended on the sixth sensetechnology( wearable gestural interface that augments the physical world) conducted by Technophilia systems have drawn my interest.

From my childhood I was always interested in technology, and the first time when I saw my tv being repaired I desperately wanted to know how that was working, and that urge to explore has brought me this far and as time progressed the doubts started increasing and when I attended sixth sense training I definitely got interested in signal processing and the things that can be achieved using it.

I posses a great knowledge in this field as I m from the same field, as what I see in the future is the entire world relaying on this particular field as everything now a days is being automated and to process complex signals this field is very necessary.

Elon musk has influenced me a lot in choosing this field as what he deals with and dreams of is all the job of an ECE engineer and his far sightedness, his passion towards achieving dreams that seem impossible to others and his hard working nature appeals to me.

The department that interested me is electrical and computer engineering, and the programs that interest me are the controls and robotics in this enabling robots to better perceive and operate in variable and uncertain real-world environments exits me and also would like to work under “susan hackwood” who is expertise in computer vision,3D modelling ,image processing and “jay a Farrell”. Similarly the other fields that intrests me are the communication and signal processing which is thought by “llyaduner” and “Amit K Roy chourdhury” and Computer engineering thought by Hyoseung Kim.

## I have always been a dreamer and my wildest dream of having vehicles running without human assistance and with clean energy, and the space vehicles travelling at almost the speed of light have almost driven me this far. The Controls and Robotics domain will help me build autonomous vehicles which has always been my dream.

## The research work that is happening at the university and the highly trained and research oriented faculty would enable me quench the thirst for knowledge in a more easy way. especially the work of Hyoseung Kim is by far matching what I have dreamt to excel in .

## Many of my friends and relatives study and stay there, despite that the Diversity and multiculturalism, High quality universities in America & student support, Opportunities to work after graduation, Space to be innovative. Moreover, universities in America, just like any other university in the developed world, tend to promote practical learning. Students seemingly have a lot more personal space to improvise and can carry out their own projects that might turn out to be something very big, and this is what I like about it.