Change is far more profound than what we can sense. As Charles Darwin, the Father of Evolution, truly said, “Change yourself to adapt to the change because he who adapts himself successfully to the changing stimulus is the one who shall survive”. To canalize and direct this change, the best riposte is ‘education’, and I personally feel and believe in the adage “Follow Knowledge, beyond the utmost bound of human thought and that is more Knowledge.” And this, perhaps, best exemplifies my purpose for further graduate study; the pursuit of knowledge, the need for erudition and the want of edification. I am at the “take off” stage where fundamentals are fairly clear but a whole new exciting world of additional knowledge, research and application beckons me. I know I have the potential to excel in this chosen field. I would also like to do a minor in Computational Science and Engineering because, as stated by SIAM, “CS & E focuses on the development of problem-solving methodologies and robust tools for the solution of scientific and engineering problems”, in order to improve my odds of being a resourceful engineer.

As is often the case the roots of many decisions we take in our adulthood can be traced to our formative years. It was when I was in my tenth grade that C programming was introduced in our curriculum. By the end of the first week, I found myself inexorably drawn towards this “mystic maiden”. And although I was still a child, I knew that this was where my future lay. It was only in my twelfth grade that I realised mere coding and debugging was no longer enough to satisfy my curiosity and I started looking out for fields that allowed future scope for research and technical growth, but still was inherently dependant on programming.

I have fared decently well in my Bachelor’s degree program with a major in Electrical and Electronics Engineering, from among the thousands of engineering students taking the examination. I have been benefited from the length and breadth of Visveshwaraya Technological University’s syllabi content that has given me a comprehensive exposure to the vast areas of Electrical and Electronics and a strong conceptual understanding of the same especially through courses like Network Analysis and Microcontrollers. But I realized that it was more important to gain a thorough knowledge of my subjects, and therefore never constricted my field of study to the immediate purview of the syllabus. I have made it a point to keep myself updated about the latest developments by attending various seminars and workshops.

# I have successfully completed a course in Python programming which can help me in desktop applications. I have presented seminars on the subjects of High Voltage Engineering and Logic Design and have also presented a paper on “Detection Of Power Quality Disturbances Using Wavelet Transforms” at a state level symposium. Through the paper, I learnt of the different techniques used to analyse the signal, how each of them differed from the other and the different types of wavelets. I also learnt of the different types of power quality disturbances and how each of them is caused and what the effect of each is. As a progression to this paper, I am currently working on another paper titled “Detection and Analysis of Harmonics using Wavelet Transforms”. I have also been a part of a workshop in image processing where I learnt a great deal on detail extraction and image compression. Since I am currently in my final year, I am working on a project which involves capturing images of signboards in different languages, extract the required details, and provide a translated text of the signboard to suit the requirement of the user. The project is due for completion in March 2011. I also take pride in stating that I have submitted a project proposal to the prestigious Government organisation- DRDO (Defence Research and Development Organisation) and I am waiting for an approval from the same for execution.

I have been responsible for a lot of successful department and college programs. I have organized intercollegiate, state and national level fests and events in my college and I have been the class representative for one year and a cultural coordinator for two consecutive years. I have also worked in the Editorial Team of the college magazine. These have taught me to handle people diligently. While still an undergraduate in college I worked as a tutor to students. This has, over time, helped me develop a mode of explaining through examples. I have also assisted my family in their business when required and in my personal opinion, the customers seem happy with my services. I have also completed my Junior exams in Carnatic Music from a certified board and I am currently indulging my interest for music by taking up Keyboard classes.

For efficient use of energy, we not only have to concentrate on intelligent power grids but also on intelligent electronic devices which minimises power dissipation, which is what I would like to explore through a course in VLSI in graduate studies. Another aspect of research that intrigues me is Signal and Image Processing. My interest with Image Processing began when I had to look up the meaning of a particularly complicated tattoo design for my friend. I tried the conventional way- Googling for tattoo designs- but it turned out to be a very time consuming process to locate the design and then looking up the meaning. It was then that I started wondering if there was an easier approach to this tedious job- a search engine to locate an image with specific features analogous to how Google works with text.

There is no denying that USA has been at the forefront of technological brilliance and excellence. Your country has excellent academic centres in almost every field. Academics and curriculum at your institutes do keep pace with the rapidly changing technological scenario – by being solid, yet flexible. Thus the institutes do attract the best talent consistently.

Over the years, I have developed a quiet, innate confidence that given the opportunity and environment to interact and learn from the top rung of faculty members and students – I have it in me to excel in my chosen field. I do earnestly feel that your esteemed university will provide me with the desired atmosphere and opportunity. I am specifically interested in research being carried out by Dr. Kenneth Jenkins in Digital Filtering and Dr. David J. Miller in Pattern Recognition and Image Segmentation.

My immediate goals happen to be to work for an organization of international repute, which will not only help me apply the knowledge I have accrued but also help me get a much more globalised perspective.

After the completion of my masters, I would like to take few years of industrial experience and further my Doctoral studies.

My long-term career objective is to leave a legacy that will live on after me. Professional recognition and fame though not of paramount importance to me is something which I feel would be a logical fall out to.

I understand that my quantitative scores in GRE are not up to my usual performance and at any point of time if the admissions committee board feels that it is the only hindrance to my application, I would be more than glad to retake my GRE and submit my scores.