

### **Statement of purpose for Germany**

My father and has been a great deal of inspiration for me. I always believed that I would become an able Electrical engineer. To pursue higher education in electrical and electronics by doing my masters at the premier university, and thereby make a mark in the field of Electrical and electronics. My aspiration is to acquire wisdom from the knowledge and thereby give it back to the scientific community. Since my childhood my father has been prominently motivational and inspirational idol to me. Being Diploma in Mechanical engineering, my father inculcated and taught me the beauty of engineering. I used to visit his office and field work, where we had lengthy discussions on the application of electrical subjects. These discussions left an indelible impression in my mind and made me to choose Electrical and electronics as my undergraduate course. My interactions with my father gave me an opportunity to verify facts and theoretical knowledge I acquired during my undergraduate classes with practical fields. Yet my passion and unquenchable thirst for the engineering driving me to pursue the Master's in Electrical.

With a sound school background I have successfully completed my 10 years of schooling and scored 66.66% in my X standard and got 88.7 in XII standard. My inherent strengths have been my quantitative and analytical abilities, which instilled in me a special interest in mathematics. I opted Electrical Engineering as my discipline in ABC affiliated to Jawaharlal Nehru Technological University, one of the premier institutes in India. I passed this Under Graduation course with an aggregate of 64.28%.

The four years of undergraduate education have been a great learning and enriching process for me. I studied the rudiments of Electrical Engineering especially in the fields of Electronic Devices and Circuits, Pulse and Digital Circuits, Power Electronics, Microprocessor, Network theory, Electrical Measurements, Power Systems and Semiconductor Drives and Control Systems. I have done electives in the advanced subjects like Digital Signal Processing, Linear and Digital Integrated Circuits. I have also undergone training in programming languages like C, Embedded systems and operating systems such as WINDOWS & LINUX.

My passion and training in embedded system helped me to develop and execute a real time industrial project for a client. Technical knowledge is just a part of student life and will never be completed without extracurricular activities. There are several other facets of life. I am a voracious reader of English literature and Indian literature. I play Basket Ball and won quite a few medals for my undergraduate college. We conduct weekly debates over current issues as a part extracurricular activities and I was one of the organizing team members. I am an active member of Indian Students of Technical Education - ISTE, which encourages the students to take part in paper presentations and technical quizzes. I played a vital role in organizing a technical symposium in my college and aided my professor shortlisting the papers for presentations. I was awarded first prize in National level symposium 'Potenzia 10' for my poster

presentation. I also participated in a National level symposium and led a team of 4 in my undergraduate project work.

I was the team leader for the project entitled “Solar Tracking System”, In which the output power produced by high concentration solar thermal and photovoltaic systems is directly related to the amount of solar energy acquired by the system, it is therefore necessary to track sun’s position with a high degree of accuracy. The use of tracking technology allowing solar modules to follow the course of the sun which can increase electricity production by 30-40%. The project was successfully completed under the able guidance of Prof. ABC Head of the Dept. ABC College.

Like I said, I had grown up looking at my father. We used to engage in long debates over developing applications simple PCB circuits. We have developed 3A, 25V sinking and sourcing circuit using DSP processor and it was a real time application and used to simulate different variable loads. It has kindled my interest in embedded system, signal processing, coding. I have taken up embedded courses as elective. My other areas of interest are power electronics, control system, microprocessor coding. I found that the esteemed university suit very well to my aspirations, goals and it is student friendly.

To quote a few, this university has world class infrastructure and outstanding faculty who has vast experience in academic fields, in depth knowledge in Electricals, published a plethora of IEEE journals and have impressive patents. I strongly believe admission into your esteemed university provides me with an opportunity to learn research and enrich my skills. I have vast theory and practical knowledge in electrical courses. I am sure that presented with an opportunity, I will blend my skills with university facilities to bring about novel techniques and technology in Electricals.

I am self-motivated, patient, diligent and have the penchant to explore new technologies. I feel getting an opportunity in pursuing Masters in your esteemed university enhances my skills and lets me to apply my skills to contribute to research. The university facilitates to shape my career to crack down my goals and reach the pinnacle.