



*Submitted by Salman Uddin  
Personnummer 901115-8517  
Email [salmanu@kth.se](mailto:salmanu@kth.se)*

## **Reflection Text 1: Study Electric Power Engineering – Why?**

We live in an energy dependent world. One of the most important energy in the world, which is also considered to be the backbone of an economy, is electrical energy. As we cannot imagine a human body without heart and blood vessels, similarly we cannot imagine today's world without electric power generation and electrical networks. Keeping in mind this importance of power system in the world and my inclination toward power engineering, I chose "Electrical Power Engineering" for my master's from KTH Royal Institute of Technology. I believe that education in electrical power engineering at KTH is highly research oriented and will help me to exceed in my career as an electrical engineer. Moreover, the school of Electrical Engineering at KTH is one of the best in the world, thus studying electrical power engineering from KTH was an easy choice for me. During the past three years, I was working in an engineering consulting company. I was responsible for engineering and design of the power and electrical system of the petrochemical and fractionation plants. With a bachelor's degree in electrical engineering and some work experience as an electrical engineer in the industry, I believe that adding a master's in electrical power engineering, would further enhance my career.

In future, I would like to work as an engineer or a researcher for the development of a secure, adaptive, efficient and sustainable power system that will provide reliable and competitive energy. India remains perennially energy starved with most of the states still not officially declared as completely electrified. In the long run, I would like to contribute in improving the generation, transmission and distribution capabilities of India and other countries of the world which are facing similar electricity challenges.

For short term goals, I am looking forward to complete my masters from KTH with good grades and work in Scandinavia as an electrical engineer or a researcher in a reputed firm or institution. My area of interest includes substation and industrial plant design, power system sizing, power system protection, automation and control. I plan to work in these areas in the near future.

During this academic year I would like to learn as much as possible from the master's program and would try to get good grades to justify my learning during the year. I feel that KTH is a temple which has a limitless treasure of knowledge. It is totally upon the students to grab this learning opportunity and excel in his or her area of interest. I also look forward to work on some research projects which are based on protection, automation and control of substations.

After spending few weeks in KTH, I realized that the approach towards teaching in KTH is completely different from what I had experienced during my under graduation. The education system in KTH works more on practical and real world problems which was a pleasant surprise for me. The curriculum in KTH is structured in such a way so that the students stay occupied with their studies most of the time. I believe that this approach is really helpful for making students more organized, pre-planned and ready for the world outside the university. This approach also fulfills the purpose of education which is to make students learn and not just pass the examinations. In the end, I would like to say that I am really fortunate that I got this opportunity to learn and grow at KTH.