



Topic#1 Study Electric Power Engineering – Why?

Why did you choose this particular program?

When I was studying in high school, we had some study visits from various industries and science centers which helped students to be familiar with different science, profession, carrier, services, and industries and to guide them toward their desire field of study. The automotive factory with its own electrical substation, its huge motors, control systems, robotics, automation, relays, etc. engaged my mind me and encouraged me to get more information about them. So, I started an associate program in the most relevant field, *Industrial control*, at an applied science university. For nearly each courses we had some practical projects and labs and I had opportunity to have hands on practical activities such as automation programing, working with substation equipment, transformers, and electric panels and so on. I got generally fantastic classified basic knowledge of nearly all systems and equipment that I had seen in that factory before (electricity, control, robotic, machines, hydraulics, pneumatic, etc.). For my bachelor study, I chose electrical engineering as I was more interested and strong in dealing with its concepts. The more I thought about future development, modernized life, smart cities, atomized industry, space explorer , autonomous vehicles, clean energies,... the more I believed that electrical engineering can satisfy my passions towards future innovations. In last year of my bachelor program I also became familiar with research area of electric engineering. For me it is amazing to be involved in both practical and research programs. To make my dreams come true, I took one important step by applying to master program at KTH in Sweden as here is one of the places where the future development meets today's reality easily.

What are your life time goals (career related)?

Being an experienced electrical engineer has been my recent years' goal and I am still making effort to make it come true. After gaining enough knowledge and experience I will pursue my dream of owning a research-based company in electric engineering to deal with challenges and innovations. These days concerns and challenges as far as I know are including energy crises, clean energy production, lossless energy transmission, high voltage DC converters and transmissions, innovation in control and communication systems, smart cities, and so on.

What are your goals for the next 3-5 years?

After finishing master program I want to have more practical experience in electric engineering and to know more about the real concerns and challenges in this field. After that my plan is conducting an industrial PhD program in order to be active in both research and practical parts of electric engineering.

What are your goals for the ongoing academic year?

I like to increase my knowledge by working on my courses, consulting with KTH scholars, discussing with classmates over problem and assignments, and participating in seminars and workshops.

Also I want to know about the potential research grounds to make a plan my final thesis.

Now that you prepared your study plan and spent a number of weeks as a master student at KTH, what has surprised you most (positively and negatively)?

What surprised me most at KTH was the work load of courses. I believe up to a certain extend it can be a positive aspect, however if it exceeds beyond someone's tolerance it can create fatigue. The facilities such as lab equipment and internet based interactions with courses, professors, TAs are interesting. Having teaching assistants to guide students is a positive aspect of studying at KTH.

Guest lectures are also another positive point that provide good links to get information about latest news and concerns of industries and connect them to our scientific researches.