# Introduction

The following report is based on the default nature of the work done by electrical engineers in the real world. This report contains. An interview was conducted with an electrical engineer known by the name of Salah Hassan who has discussed a topic about the generic competencies required by employees in the industry. This report was requested by Laura Labato, the course coordinator of Market yourself in Bahrain Polytechnic.

# Findings

## Interview

Salah Hasan is an electrical engineer in Alba and was interviewed on Monday 6th of April at Bahrain Polytechnic to discuss about the everyday life working in an industry. Alba is one of the largest aluminium company in the Middle East located in Bahrain. Alba manufactures a wide range of aluminium products such as liquid metal, rolling slab, standard ingots etc.

 The roles of Salah in Alba is to strategize the distribution of electric power generating plants and stations. He supervises and trains the associates of the project team where necessary. Furthermore he prepares stipulations regarding the purchase of resources and equipment. Another point stated by Salah was that he formulates and studies the technical drawings, specifications of electrical systems, and geographical infrastructure of the company to ensure that installation and processes follow to standards and customer requirements. In addition to that, he also tends to write reports to follow up with the projects.

According to Salah Hassan, the most important skill required for this job is time management and knowledge. Salah earned the job by appealing his résumé through the civil service bureau. In six months’ time, he got a call regarding the appeal stating that the bureau has finalized his papers to be submitted to Alba. The nature of the work is mostly outdoor, the most difficult session of the job is working under pressure with a short period time. The educational achievements and life experiences are partially related to the maintenance work as most of the work depends on basic study and lab experiences.

## Research

### The definition of electric engineer

Electrical architects plan, create, and test electrical hardware. The wide field of electrical designing includes working with all behaviour of electronic gadgets, from portable mini-computers to heavy supercomputers. Recently converging with PC designing, an advanced course in electrical department can be created to form a specialized profession in any industry. Since innovation is continually changing and extending, the requirement for electrical architects has been increased on a long term.

Related to any other research, electrical architects tend to know on conveying their thoughts to others in the field. An effective electrical designer should not just have an understanding of his/her region of focus but should additionally have a variety of designs. This is the reason most electrical designing degree projects start with the basics of building itself.

Electrical designing teaches a lot through a blend of outline and lab work. This blend of hypothesis and common sense application permits deputes to think ideas and innovation outside the box and apply these theories later on in their careers.

### Reason of choosing electrical engineering

Electrical Engineering is the disassembling and assembling things to see how they work from the inside and what is their source of energy to function them. Electrical specialists are not simply techies, designs work in the innovation of administrations enclosure, their undertakings range from outlining and building therapeutic gear to working for the military. In opposition to prevalent thinking, electrical architects do not simply sit in their labs alone, tinkering with their most recent creation. Electrical architects work in groups, so a lot of collaboration can be divided from them.

### The work of an engineer

Despite of the fact that these businesses utilize the most specialists, they may not be a good fit for everybody. Electrical designing majors appreciate numerous choices, all that anyone would be required by an understudy to discover a vocation in a field he/she adores. The accompanying occupation titles take into consideration are just a modest group of the decisions accessible to the company.

Examination designers work in the lab, testing and concocting new ideas to reality. This occupation obliges an abnormal state of imagination from the designer, and additionally a lot of tolerance. Whether creating another electronic gadget or essentially planning a superior electrical creation, exploration designers are in charge of the revelation stage innovation behind any new electronic item. When another invention is concocted, the outline designer uses a PC re-enactments and models to transform advancements like remote innovation into the little parts that make up a real cell. Configuration engineers must picture how the internal parts of a future item could look, while developing a few conceivable situation for the uses of new advancements.

The venture designer regulates numerous expert architects all through the development of a working model or prototype. The venture engineer must have common administration capacity, and in addition to that a high capability in a mixed bag of electrical building orders. Test specialists outline projects to check the capacities of electronic gadgets and to investigate those gadgets depending of the positive or negative results. They keep innovation working legitimately, and comprehend which components to test. Effective test designers stay sharp even after extend periods of time at work. Power matrices, telephone lines, and remote systems all require the abilities of a framework engineer for legitimate establishment and support. Sharp tender loving care is vital for graduates who enter this vocation. Experienced framework designers depend on their capacity to contemplate the frameworks they make.

### Skills

An electrical engineer should be able to concentrate on the errand, have extraordinary interpersonal and incredible relational abilities. Moreover, the individuals who try to accomplish this vocation must be innovative, curious, investigative and exceptionally gritty, likewise, collaboration is a key to be an extraordinary engineer. Engineers work with diverse individuals to complete the employment such as labourers, builders and other engineers.

## Analysis

Based on the information taken from the conducted interview and the primary research on electrical engineering, the analysis would state the comparison between in the gathered information. Salah Hasan had stated that the most important skill required for the job of an electrical engineer is managing the time as the industry work will be entirely different compared with the training and education. In the industry the engineer is given less time compared to the work and as the primary research adds on to this stating that the work must be divided between diverse colleagues, which means that an engineer must be able to cooperate with any type of individual.

The roles of an electrical engineer varies in different situations given to him/her, as Salah Hassan mentioned he had worked in multiple areas of Alba, the engineer must be able to manage his/her work in different aspects. The primary research states a similar point that an engineer will not be expected to work in a single scenario, instead he/she will work in different areas discovering new innovations and transforming their ides to reality.

# Conclusion

Electrical engineering requires an interest in the subject and I am very much interested in assembling parts to create and learn new inventions. However there are gaps in my qualifications as I still have to earn my bachelor’s degree in the subject and the experience that I am gaining from the educational labs will not be enough to face the industrial challenges. I have worked in a workshop where the experienced tutors had given me a background approach towards the industrial environment.

After going through the primary research, the interview with Hassan Salah and my life experiences, I have been interested in electrical engineering and would still follow on the same course as I am interested in the studies and practical situations of an electrical engineer.

# Appendix

The questions asked in the interview

* Where do you work?
* What is your job?
* Tell me about your roles.
* How did you get the job?
* Do you recommend me to get any similar job?
* Why you recommend me this?
* I would like to know more about your job.
* What are the skills required for your job?
* What is the nature of your work?
* What are the generic competences required by you in your industry?
* Is your educational achievements and life experiences relate to occupational opportunities?
* Are there any challenges in your job?

# Bibliography

Alyson, J. (n.d.). *Responsibilities of Electrical Engineers*. Retrieved April 9th, 2015, from Work: http://work.chron.com/responsibilities-electrical-engineers-17864.html

*Electrical engineer:Job Description* . (2013, August ). Retrieved April 8, 2015, from PROSPECTS: http://www.prospects.ac.uk/electrical\_engineer\_job\_description.htm

*Electrical Engineering*. (2014, December ). Retrieved April 9th, 2015, from Career Education: http://www.careereducation.columbia.edu/resources/industry/engg/ee

Michael, E. (n.d.). *Responsibilities of Electrical Engineers*. Retrieved April 9th, 2015, from Everyday Life: http://everydaylife.globalpost.com/responsibilities-electrical-engineers-3388.html