Introduction to Electrical Engineering

Assignment #1

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1. Before Graduation:

a. What senior design project would you be interested in working on? Explain why you are interested in the project.

I am interested in designing and assembling a robot that will have the capacity to assemble other objects or robots with precision, controlled by a wireless controller such as a computer, while being conscious of the efficiency and quality of the work realized by the machine. I am interested in this particular project because I would like to understand the way machines are assembled, and how circuits are connected with the different features that make them more attractive to sell in industry.

2. After Graduation:

1. What system (product) would like to design and build using your engineering skills?

I would like to design and build a series of microphones that are attractive because of their precision and portability. By developing, testing, and incorporating different technologies that I would learn through my academic education, I can make this idea possible.

1. Who would benefit from using your product?

The clients who will get a benefit from using my product would vary from music producers to computer and cell phone companies that would be interested in selling a product that will have a high-quality and portable microphone; this would increase the quality of the sound and the prestige of the corporation.

1. List one or two engineering problems that you need to solve during the process of designing the product?

Within the different problems that I can confront in the process of developing the microphones, there are two main challenges related to the size of the products. The first challenge would be how to develop the product with efficiency, and the second challenge would be how to fit the product in small sized cell phones, laptops or other equipment.

1. Can you design the system without collaborating with other engineers?

If I have the correct knowledge and apply it to my idea, it will be possible to make it without collaborating with other engineers. However, when working with people of different backgrounds, new ideas start to increase and improve, and those are some of the benefits of working in a team.

1. What do you think about teamwork?

Teamwork is an important aspect to improve work and ideas, if someone is not capable to solve a problem, other teammates could help him overcome the limitations. I think that without teamwork, the work and products will not advance; besides the sense of being part of a team produces commitment to the goals and future achievements.