

Mostafa Elbany | Fresh Graduate

Location: Damietta

Telephone: 01142556775

Email: mostafa.elbany2711@gmail.com

Online Courses

I have had a history of self-learning, have taken many online courses, I also have been reading books and references since a long time ago, below I will mention the courses which I dedicated myself to them the most.

- HVAC
- Solid works
- AutoCAD
- MATLAB, I like to use MATLAB in advanced numerical computations because it is a high level language and more importantly it handles matrices and vectors easily.
- Fundamentals of fluid power

Education & qualifications

I graduated from Mansoura University mechanical engineering department with a very good grade (83.7%).

Achievements

My graduation project was a study of grid tied energy storage hydro-electric power plant in Ataka Mountain, It was established by Chinese Sinohydro Corp Ltd in 2017 and it produces 2100MW of electricity. The main objective of establishing the station is the development of the region to meet the electricity needs of citizens and secure electricity surplus to be sold to neighbouring countries with different peak periods. We first made a study of the load curve in Egypt to calculate the load factor and the energy which can be stored, after that we searched for the types of energy storage technologies and why did we use this technology. The method stores energy in the form gravitational potential energy of water, pumped from a lower reservoir to a higher reservoir. Low-cost surplus off-peak electric power is typically used to run the pumps. During periods of high electrical demand, the stored water is released through turbines to produce electric power. We made calculations in all the power plant components and designed it. The supervisors of the project were amazed and we got an excellent grade.

Summer training

- 2017: I had a summer training in Damietta container and cargo exchange, where I knew more about fluid power.
- 2016: I had a summer training in Damietta power station, where I knew the principle of operation of steam power plant, gas power plant and combined power plant.
- 2016: I had a summer training in Egyptian German air treatment company (EGAT), where I knew the types of Air Conditioning units, its components, advantages and disadvantages.

Interests

I think all disciplines of Engineering and science are closely related to each other. So I find myself into all branches of science that have the potential to enhance my understanding in my major. So I don't think that there is such a difference between mechanical power engineering and production engineering and I found this true in abroad top ranked universities where thermal science and mechanical Design are blended into one department.

I like to read all kinds of books in order to weigh myself with all the information.

I like to do sports in order to become physically fit.

Languages

- Arabic: my mother language
- English: very good, I am developing myself in it.