


# Mohamed Abd Elfatah Abd Elghafar

Electrical Engineer

**Mobil**  :+ 01018870871

**E-mail**  : [mohamed.abdelfatah867@gmail.com](mailto:mohamed.abdelfatah867@gmail.com)

**Linked**  : [linkedin.com/in/mohamed-abdelfatah-ba44bb1a1](https://www.linkedin.com/in/mohamed-abdelfatah-ba44bb1a1)

## Education

Faculty Of Engineering, Alexandria University, Egypt.

Bachelor of electrical engineering with cumulative grade (Very Good with Honor). 2015-2020

Graduation Project (Excellent):

(Wireless Superimpose Pulse Frequency Charger for Electric Vehicles Batteries)

- Implemented a prototype for a wireless superimposed pulse frequency charger for prolonging lead-acid Battery lifetime.
- Designed a power factor correction (PFC) unit to ensure drawing sinusoidal AC current with accepted total Harmonic distortion (THD).
- Implemented a capacitive power transfer (CPT) to transfer the power through the capacitance with proper compensation circuit.

## Training

University Center for Career Development, Alexandria University Summer 2019

- Employability Skills Track .

Alexandria National Refining & Petrochemicals Co (ANRPC), Alexandria Summer 2019

- PLC & Electric distribution training.

Egyptian Copper Works, Alexandria Summer 2018

- Production training.

## QUALIFICATIONS

### **-Classic Control Course (24 hrs) ,**

**Egyptian Company For Engineering Training (EGY CET)**

1 July-10 July 2019

(classic components, desing control circuit, logic control, protection of machines ....).

### **-PLC level 1 Course (24 hrs) ,**

**Egyptian Company For Engineering Training (EGY CET)**

15 July-31 July 2019

(S7-1200 , TIA package, logix pro...).

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### **Skills**

#### **Computer skills:**

AutoCAD.  
MATLAB.  
ETAP.  
Microsoft office.  
DIALux.  
Arduino.

#### **Language skills:**

Arabic (mother tongue).  
Good command of written English.  
Good command of spoken English.

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### **Projects**

#### **1- Graduation Project (Wireless Superimpose Pulse Frequency Charger for Electric Vehicles Batteries) – 2020**

- Implemented a prototype for a wireless superimposed pulse frequency charger for prolonging lead-acid Battery lifetime.
- Designed a power factor correction (PFC) unit to ensure drawing sinusoidal AC current with accepted total Harmonic distortion (THD).
- Implemented a capacitive power transfer (CPT) to transfer the power through the capacitance with proper compensation circuit.

#### **2- Electrical Distribution Project - 2019**

- Designed all electrical systems of a large hotel (Lighting –Power).
- Designed lighting system using POE (Power Over Ethernet) technology.

#### **3- ABU Robocon 2018 Competition - 2018**

- Designed manual robot with an arm controlled using mobile app.