

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 5 years hands-on experience working in design of industrial projects.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Female  
Residence : Nasr City, Cairo

## EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2011
- : Secondary Education: El-Manara School, 2006
- : Starting in preparing Master (2014-2015)
- : Finishing premaster exams and start preparing for the research (2015-2016)

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Basics

## COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : AutoCAD 2D
- : Matlab and C language programming
- : DIALUX for lighting calculation
- : SIMARIS design 6.0 for voltage drop and short circuit calculation
- : Ecodial (Schneider for LV switch gear design)

## TRAINING COURSES AND CERTIFICATIONS

- : PMP certificate preparation course PMBOK 5th edition including 5 process groups (initiating, planning, executing, monitoring and control and closing) and start preparing for the exam (Oct. 2016)
- : Training at EGEC Group for consultation in the U.S AID internship program (from Jan. 2012 till Dec. 2012).
- : 2 weeks training in Orascom Housing Communities.
- : 2 weeks training in South Cairo Company for Electric Distribution.
- : Communication skills course in Dale Carnegie Center.

- : Marketing for non-marketers course in Hands-on Management Consulting Center.
- : Self study informations about solar systems.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2014 till now
- Employer** : El-Gammal Industrial Group  
 El-Gammal Group is a well-established group of companies, specializing in the industrial business and environmental protection, innovation, engineering design, construction, commission & start-up, operation & maintenance, asset integrity and process safety at variety of industries, including Cement, Construction, Steel and metals, Aluminum industry. Also the sole agent of VACON-DANFOSS Drives.
- Projects** :
  - Helwan alternative fuel L1 cement industrial site
  - Helwan alternative fuel L2 cement industrial site
  - Bag filters in Suez cement factory
  - Tasluja new cooler ESP filters
  - Suez alternative fuel industrial site
  - Kkarblaa lafarge cement filters industrial site
  - Lafarge El-Sokhna cement alternative fuel industrial site line 3
  - Lafarge El-Sokhna cement alternative fuel industrial site line 5
- Job title** : Electrical Industrial Projects Design Engineer
- Job Description** :
  - Negotiating projects requirements with Customers.
  - Attend project coordination meetings with client/suppliers.
  - Determine project schedule by studying project plan and specifications; calculating time requirements; Sequencing project elements.
  - Analyze all suppliers in order to select the most suitable suppliers who are able to deliver high quality products at competitive pricing.
  - Finding out Suitable Solutions and Estimating Costs & Time Scales.
  - Provide technical & commercial offers after understanding & interpreting customer specifications/drawings.
  - Revising control signals database with the client and the suppliers and with the P&ID flow sheet of the project.
  - Preparing material list plc panels.
  - Reading the received drawings from suppliers for different system components like heater panels, compressors, cleaning system panels, dampers, weighing systems (shenck and dimatteo) and dedusting filters to know the exact wiring terminals for different control signals interface and power supply.
  - Preparing connection diagrams for automation control system containing field instrument like sensors (level sensors, limit switches, speed sensors, solenoid valves, and pressure and temperature sensors), junction boxes, motor variable speed drives, motor safety switches and local control boxes and their connection and interface signals with PLC.
  - Verify and validate the technical drawings presented by suppliers (ABB, TEPCO and SCHNEIDER) to check that all client requirements have been applied according to applied standards.
  - Attend the factory acceptance test to check the MCC and PLC panels before installation in the site.
  - Preparing drawing of single line diagram and panel layout for auxiliary

- control cabinet (ACC).
- Preparing drawing of single line diagram and panel layout for vacon drives panel.
- Preparing typical control wiring for (MCC) motor control centers drawers feeding motors in the site like screw and chain conveyors and their connection to their local control boxes and safety switches.
- Preparing drawing of single line diagram for the low voltage switch gear with incoming cell taking from 11/0.4KV transformer and outgoing cells feeding the motor control centers in the site.
- Preparing 3d drawings and part list for used socomec safety switches boxes.
- Cable routing for cable trays with 3D drawings.
- Lighting calculations with 3D visualization of the site.
- Deliver as built drawings after the site modifications.

**Dates** : From Jan. 2012 till Jul. 2014

**Employer** : EGEC Group for consultation

EGEC is a multi-disciplinary engineering consultancy group of firms (House of Expertise) in the areas of Buildings, Water and Environment, Transportation, Urban Development (Integrated Infrastructure), and Energy Management Systems & Solutions. The group has a strong presence in the Middle East and North Africa (MENA) region. The group provides integrated engineering consultation services meeting its client satisfaction through collaborative and efficient work environment.

**Projects** :

- Prison sector headquarter
- Qatar foundation
- Business center in Souq-Waef, Qatar
- EGEC Libya office
- Mobily TECB 1001 Riyadh 3 data center
- Car parking building
- Private Villas

**Job title** : Electric Power Design Engineer

**Job Description** :

- Lighting design (Lux calculation) with Dialux and wiring of lighting.
- Energy saving by replacing old traditional lighting fixtures with new energy saving lighting fixtures.
- Lighting control systems by distributing occupancy sensors, selecting lighting dimming panels and user manual control overrides and making riser diagram for lighting control system component.
- Small power distribution.
- HVAC equipment electrical supply (AHU, package unit, fan coil unit, exhaust fans, smoke fans and pressurization fan).
- Plumbing equipment electrical supply (submersible pumps, domestic water pumps and electric water heaters).
- Selecting cables and feeder routing.
- Riser, panel board schedule and motor control centers.
- Preparing the single line diagram of the MDB and SMDB panels.
- Generator selection, specs and tender BOQ.