

Holds a B. Sc. in Electrical Machines & Control Engineering and has PMP certificate. Has over 8 years experience working as Senior Project Engineer & Electrical Specialist in several large projects.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/03/1982  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## **EDUCATION**

: B. Sc. in Electrical Machines & Control Engineering, Cairo University, 2004

## **LANGUAGES**

Arabic : Native Language  
English : Fluent  
German : Fair

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet  
: MS Project

## **TRAINING COURSES AND CERTIFICATIONS**

: Course in Project Management Professional (PMP).

## **CHRONOLOGICAL EXPERIENCE RECORD**

**Dates** : From May 2008 till now  
**Employer** : Air Liquide Egypt  
**Job title** : Senior Project Engineer & Electrical Specialist (Large Project Dept.), Local Electrical Expert TCL  
**Job Description** :

- Working in the field of ASU (air separation unit) to produce the medical and industrial gases and liquid such as Oxygen – Nitrogen – Argon – Helium – Carbon Oxidation, etc.
- Projects:
  - Handle all the project documentations and give technical support to services engineers during the project implementation.

- Responsible for the complete technical coordination between the different suppliers in the package projects to ensure the optimal design, hand over to the customer starting from the design stage to the final testing, commissioning and start-up on site.
- Keep up to date with development with respect to relevant process owners.
- Preparing and participating in all the commercial issues of the project including piping – instrument – ASU air separation unit – pumps – compressors – valves – tanks – vaporizer and electric equipment).
- Preparing and participating in all piping working related to the project (isometric and general arrangement) as the piping inter skid and interconnection piping between skids.
- Preparing and participating in all mechanical working related to the project (cooling tower system & compressor & crygeonic pumps & vaporizer and tanks).
- Engineering:
  - Responsible for making design for electric SLD and electric specs for MV SWG & power transformer & Distributed transformer & LV SWG & UPS & DC charger & SCADA and DCS system.
  - Preparing and participating for making the power study and short circuit study and relay coordination study and motor acceleration study by using etap software.
  - Preparing and participating for earthing network design (clean and dirty & power cable sizing & tray and trenches design).
  - Responsible for the electrical commissioning on the site and the SWG protection relay programming and all the interconnection interlocks between the electrical equipments to keep high electrical protection limit.
  - Responsible and participating for the electrical equipment installation on site.
  - Responsible for applying the electrical tests on electrical equipments before electrical energize to keep high reliability for electrical system.
  - Responsible for making technical comparison for all electric suppliers and choose the best one.
  - Responsible for making the required support in the site and provide the site with all required data and information.
  - Participating in making the plant site layout.
  - Responsible for making the required instrument connection from Junction box to the marshalling panel and then to DCS and make BOQ for all required instrument equipments and cables.
  - Preparing and participating in all the technical issues of the project including piping – instrument – ASU air separation unit – pumps – compressors – valves – tanks – vaporizer and electric equipment.
  - Preparing and participating in all the mechanical technical working related to the project (cooling tower system & compressor & crygeonic pumps & vaporizer and tanks).
  - Preparing the control logic system and the control loops on P&ID.
  - Design validation for Middle East zone for electrical design part.
  - Manage and support for the electrical part for all AL plants inside Egypt.

- List of the biggest projects:
  - ALX EZDK SIGMA ASU IV (air separation unit produce Gas Oxygen with flow 9000NM3/hr and capacity 330 ton/day).
  - SILPA 140 ASU (ASU to produce liquid oxygen and liquid nitrogen with capacity 140 ton/day).
  - TCI SIGMA (air separation unit produce Gas Oxygen and Gas Nitrogen with capacity 190 ton/day).
  - ESR SIGMA EZZ SADAT (air separation unit produce Gas Oxygen with capacity 110 ton/day).
  - Saint Gobain (air separation unit produce Gas Nitrogen and Gas Hydrogen).
  - ALKIG (CO2 plant in Saudi Arabia and Lebanon).
  - Design Authority for electrical part of H2 plant in Saudi Arabia.

**Dates** : From Jan. 2006 till May 2008

**Employer** : Schneider Electric Egypt

**Job title** : Senior Technical Project Engineer (Regional Consultation Center (RCC))

**Job Description** :

- Automation:
  - Study and review technical specifications for supervisory control systems and prepare the technical and commercial offer.
  - Design and implement communicating supervisory systems (Data acquisition, event logging, remote monitoring and control) using Modbus protocol and "SMS" System Manager Software and Vijeco Citect software.
  - Supervise and technically support system integrators during the offer and order stages of a project. Selecting the most suitable architecture and protocol for the control and supervisory system according to the projects' demands and restrictions.
  - Fully aware of Schneider Automation systems and products.
  - Programming of the PLC systems for the medium size projects, with different PLCs types.
- Projects:
  - Review technical offers and quotations submitted by Schneider's external suppliers for electrical equipment ordered (e.g. power transformers, UPS, battery chargers and batteries, etc.) and then check for compliance with the client's specifications.
  - Prepare the technical and commercial offers for all external supplies (power transformers, UPS, battery chargers and batteries, Bus-duct).
  - Fully aware for PLC & Automation systems, cables selection and cables trays routing, bus duct selection and routing, distribution transformers definition and selection..., any other technicalities requested for package projects.
- Technical support:
  - Provide technical support to all departments, to ensure the optimum project designs and the customer satisfaction.
  - Recommend optimal means to reduce equipment and productivity cost. Studies and design contracts requiring high technical knowledge to produce documents (drawings, PO, calculation notes, studies and manuals) needed for the customer as well as the manufacturing cycle.
  - Prepare the relay coordination study and short circuit study.

- Provide standard solutions (System architectures, PLC programs, External supplies technical quotation) to be used by the company for future contracts completion.
- Participate to technical negotiations with the client at offer/order stages, giving technical assistants to PM to reach optimum technical and commercial offer.
- Conduct technical trainings/seminars internal to enrich our staff technical competence and external for our customers in the relative project activities or for business development.
- Design and maintenance all types of synchronization panel (more than one generator-utility with generators) whether was MV or LV.
- Service & repair and support for MV/LV equipment of Schneider Electric.
- List of the biggest projects:
  - WNPOC Petroleum Company located in Sudan (12 shulters + MV + LV + transformers + DC system).
  - IRAQ (200 Electric Kiosks + MV + LV + Transformers) Baghdad.
  - Nubaria Power Generation Stations (MVSWG – LVSWG – PLC – Scada).
  - American University Cairo (MVSWG – LVSWG – PLC – Scada + Diesel Generator).
  - El Zafrana Electric Power Generation by Wind Energy (MVSWG – LVSWG – Kiosk).
  - Dohaa Airport (MVSWG – LVSWG).
  - Ethiopia Electric Authority (MV - 770 transformers).

**Dates** : From Oct. 2004 till Jan. 2006

**Employer** : Al Mohandees International Co. (AMI)

**Job title** : Design Engineer / Technical Support

**Job Description** :

- Helping in the commissioning & start-up of the new automated system (Diesel Generators and low voltage distribution panel).
- Responsible for the design & programming synchronization panel.
- Responsible for the electrical installation for all type of Diesel generators in the field (including power & communication cables).
- Responsible for the design & programming and wiring diagram of the Gen xfer which allow the change between two suppliers (used for Automatic Transfer Switch panel and make the connection between the panel and engine).
- Responsible for the wiring diagrams of the PGC (between the engine & the Control Panels) & the wiring diagrams of the MCC panels.
- Helping in solving the customer's problems including start-up Diesel generators & make synchronization between two diesel generators or more.
- Responsible for the Design of Power factor panel & synchronization panel and ATS panel & manual control panel (MCB) which is mounted on Diesel engine and Automatic main Failure panel (which include the MCB & ATS) using AutoCad 2002.
- Responsible for the design one out of two panels & two out of three panels and make the control in the bus coupler to achieve the requirement.
- Design all type of Motors Control Circuit and pumps and protection relay.