

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 12 years hands-on experience working in construction, maintenance, commissioning and start-up at Power Plants..

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 23/01/1977  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## **EDUCATION**

: B. Sc. in Electrical Power & Machines Engineering, Zagazig University, 2006

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: AutoCAD 2016  
: Calclux, RELUX 2007  
: PLC Siemens

## **TRAINING COURSES AND CERTIFICATIONS**

: Matlab 6.5 (Introduction) Course (2005).  
: AutoCAD Two Dimension (2D) Course (2006).  
: PLC Course (2007).  
: OFF SHORE: One month training on Yokogawa DCS system (CENTUM VP Fundamental, Engineering, Maintenance and start-up training) in Yokogawa Middle East & Africa Training Center in BAHRAIN (Oct./Nov. 2010).  
: Training in Arabic Association for Manufacturing (SEAKR Factory for Developed Industries) (Jul. 2004).  
: Training in Alnasr Factory for Producing Transformers & Electrical Equipment (Alcamo) (Dec. 2009).  
: Training in Shoubra El-Kheima Power Station Training Institute: Constituting a program of concentrated study of Power Plant equipment and systems theory and application (Dec. 2009).

: Training in Cairo North Power Station Training Institute: Maintenance and operation.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2011 till 2018
- Project** : 6<sup>th</sup> October Power Plant (Gas turbine: 8x150MW units Power Capacity)
- Job title** : Electrical Power Project Engineer
- Job Description** :
- Working as an Electrical Maintenance, Commissioning and Protection Engineer in 6<sup>th</sup> October Power Plant (8x150MW simple cycle gas turbine units).
  - Responsible for following construction of all electrical works in the site.
  - Plan and execute pre-commissioning, commissioning, start-up.
  - Supervising project pre-commissioning and commissioning activities and putting the remarks.
  - Responsible for "Electrical drawings review and approval" according to the contract specification requirements.
  - Installing Electrical Panels.
  - Installing MV Switch Gear (ABB & Siemens / SF6 & Vacuum C.B 6.3KV).
  - Installing MV & LV Motors.
  - Installing LV (6.3KV/400V) Transformers.
  - Installing Battery Charger (125V DC/Benning).
  - Installing Batteries.
  - Installing SFC System (Static Frequency Converter) & SEE System (Static Excitation Equipment).
  - GIS (gas insulated switchgear).
  - Maintenance of Network Bus Bar (Medium voltage, Low voltage).
  - Testing, operation and maintenance of Switchgear.
  - Operation and maintenance of cranes.
  - Testing and maintenance of transformers.
  - Implementation of circuits for lighting streets, buildings and to repair the faults.
  - Testing and commissioning of voltage and current Transformers.
  - Installation, testing, operation and maintenance of motors.
  - Operation and maintenance of DC Voltage systems. (Battery, Chargers, Rectifiers, UPS).
  - Operation and maintenance of Diesel Generator.
  - Testing and maintenance of Earthing system.
  - Maintenance of all control circuit and repair the faults.
  - Maintenance of electrical valves and adjusts the opening and closing distances valves.
  - Cathodic protection.
  - Numerical protection relays ABB (RE\*670) series installation, configuration and testing for 220KV SF6 gas insulated (GIS), Generator, transformers, 400V and 6.6KV motors.
  - Supervisor for all the project work for generators, transformers, SFC, protection relays installation and commissioning with contractors ABB & ANSALDO.
  - Studying orders, tenders and purchasing spare parts.
  - Generator, Transformers and Motors Protection Relays testing and fault

analysis.

**Dates** : From Apr. 2014 till Jul. 2014  
**Employer** : ANSALDO Energia  
**Project** : 6th October Power Plant 600MW Simple Cycle Extension Project  
**Job title** : Gas Turbine Operation Engineer  
**Job Description** : Responsible for Operation of all components and skid of Steam Turbine (Mechanical and Electrical) from monitor and local, start-up the turbine from Control Room, follow up all Work Permits and all required activity in Work Permits can be done and also do all the following:

- Perform all required tests with the client and record all results.
- Make commissioning and continue for gas turbines.
- Make energized for GIS, medium Voltage and all breaker in switchgear.
- Make check for signals from/to DCS.
- Work as Turn Over Engineer.
- Responsible for open and close all work permit.

**Dates** : From 2007 till 2011  
**Employer** : Cairo Electricity Production Co.  
**Project** : Cairo West Power Plant:

- 2 units "SIEMENS" Steam Turbine & Generator: (MCR: 357MW).
- 2 units "HITACHI" Steam Boilers: (MCR: 1030 t/hr), (Main Steam Pressure 175 bar).
- "ABB" DCS Control System (Yokogawa).
- 4 Operation Modes: Coordinate, Sliding, Constant Pressure, and Unit Master OFF Modes.
- Natural Gas & Fuel Oil Firing Systems.
- 2 Emergency Diesel Generators (2MW each).

**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Working in ABB control system, instrumentation and commissioning of loop control (open loop, closed loop).
- Working in BMS boiler control system.
- Working in DCS computer (PMS, PDS, PDDS).

**Field of experience** :

- Senior Electrical Engineer, work at designing lighting, power, low current and fire alarm.
- Preparing designs for MV & L.V. Switchgear, LV & MV Cabling, Cable trays, Lightning, Earthing, lighting, small power and sizing Generators, UPS, transformers for the various types of projects such as Huge stores, Factories Hotels, commercial centers, underground car parking's, administration buildings commercial building, Villas, Residential buildings; .....etc.
- Preparing the Bill of Quantities.
- Familiar with the international standards IEC, BS, IEEE, NFPA.
- Sharing the preparation of the particular technical specifications.
- Studying contractors technical and financial offers.
- Electrical installation of different electrical systems (medium voltage switchgear & High Voltage cable, generators, power transformers, medium voltage circuit breaker, Low voltage switchgear and protection

systems).

- Commissioning and Maintenance for all electro-mechanical work Electrical installation of different electrical system (light, power and low current system).
- Reviewing the specifications and complying it with the installed works.
- Testing the Electrical System after Installation to ensure that the System is ready and safe.
- Preparing load calculation, voltage drop, sizing cable and sizing bus bar.
- Preparing all the RFQ (request for Quotation) required for the project.
- Follow-up with subcontractors during negotiations and offer award or subcontract terms Performance and payments.
- Reviewing all the suppliers offers and prepare the technical evaluation report technical and material submittals.
- Preparing all the technical documents required for purchase order.
- Preparing the verifying scope for all project items.
- Preparing all the construction drawings (shop drawings).
- Coordinate with quantity surveyors or payment appreciations and change orders.
- Review subcontractors' packing lists and invoices if required.
- Documenting project issues/conditions.
- Supervising on electric works in 17 residential buildings at buildings project in Heliopolis, each building consists of ground floor and 4 typical floors with full finishing and site infrastructure works include 22KV voltage cables distance 1498m (Mar. 2017 - Present).
- Supervising on electric works in 97 residential buildings at buildings project in Mansoura City, each building consists of ground floor and 5 typical floors with full finishing and site (Aug. 2016 - Mar. 2017).
- Supervising on electric works in 55 residential buildings at buildings project in Salam City, each building consists of ground floor and 5 typical floors with full finishing and infrastructure works include medium voltage cables 22KV distance 1km and low voltage cables (120+240\*3) (Jan. 2014 - Aug. 2016).
- Supervising on electric works in 8 buildings project in 6th October City (Jan. 2013 - Jan. 2014).
- Good knowledge and maintenance of P.L.C. programming (different types of PLCs).
- ELECTRONICS (Repair Cards).
- Calibration of control valves positioners.
- Calibration of (pressure, Temp, flow and level) Transmitters.
- Maintenance of (pressure, Temp, flow and level) switch.
- Adjusting and maintenance of Bentley Nevada vibration probe.
- Maintenance and programming of INGERSOLLRAND compressors.
- ELECTRICAL MOTORS (AC & DC & SERVO & STEPPER).
- PROGRAMMER OF INVERTER (AC MOTOR).
- Knowledge and maintenance of Circuit Breaker and Transformer.
- Complete knowledge of (Star-Delta- delta Star).
- Knowledge of transducers (RTD - thermocouple - differential pressure).