

Holds B. Sc. & M. Sc. degrees in Electrical Engineering and has more than 13 years hands-on experience in Fossil Fuel power plants (Steam & Gas Turbines) from Erection, Commissioning through start-up and operation of power plants electric equipments including (Power generators, Transformers, MV/LV switchgear, GCBs, AC/ DC DP, IPB, UPS, Fire Fighting, GIS, AC/DC Motors, and all of other electric systems related to power plants). Familiar with feedback and start-up procedures of gas turbine units. Familiar with high voltage test arrangements. Familiar with all of safety site rules and instructions. Familiar with fast-track projects.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 15/02/1980  
Gender : Male  
Marital Status : Married  
Residence : Assiut

## **EDUCATION**

: B. Sc. in Electrical Power & Machines Engineering, Assiut University, 2001  
: M. Sc. in Electrical Engineering, Assiut University, 2005  
: Currently preparing for PhD degree

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Certificate from the Energy Learning Centre Recognizes of General Electric Company "GE Energy" for successfully completing EX2100 Generator Controls.  
: Certificate from GE Energy Learning Centre - UK, for successfully completing a course covering FS9FA Gas Turbine Maintenance.  
: Certificate that I have attended Professional Supervisory Skills program from MEIRC Training & Consulting.  
: Nomination letter from Managing Director of Dubai Electricity & Water Authority that I have nominated for the team of the 2nd Quarter 2006 Award.

- : Certificate from HOPPECKE Batteries system, Germany that I have successfully participated in a Seminar about Nickel Cadmium Batteries Technology.
- : Recommendation letters from four professors in Assiut University recommended me for studies leading to the Ph.D. degree.
- : English language learning certificates from American University at Cairo AUC "301, 302, 303, 304 and 401 Levels".
- : Local TOEFL certificate in English language.
- : Passed successfully the following preparatory M. Sc. courses:
  - Numerical methods (computational methods & programming).
  - Advanced topics in control.
  - High voltage engineering.
  - Powers Electronics.
  - Advanced topics in energy conversion.
- : Passed successfully the following preparatory Ph.D. courses:
  - Applications of Electrostatic fields & Methods of determining electrostatic problems.
  - Advanced topics Electrical Power.
  - Advanced topics in Electrical Measurements.
  - Advanced topics in digital signal processing.
- : Summer trainings:
  - At Assiut Cement Company, Jul. 1999:
    - Transducers & Control systems.
    - AC & DC Motors, Generators and Circuit Breakers.
  - At Assiut Thermal Power Plant, Jul. 2000:
    - Main cycle of Thermal Power Plants and its electric components.
  - At El-Kapon making clothes factory, Damascus – Syria, Aug. 2000:
    - Transducers & Control systems.
    - Winding of AC motors (Induction Motors).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Apr. 2015 till now  
**Employer** : [EGYPTROL](http://www.egyptrol.com)  
**Project** : Assiut Combined Cycle Power Plant 1500MW - Two 750MW (4x4x1)  
**Job title** : Pre-Commissioning Engineer  
**Job Description** :
 

- Pre-Commissioning of Generator Start-up Transformer GSU.
- Pre-Commissioning of Unit Auxiliary Transformer UAT.
- Pre-Commissioning Generator Circuit Breaker GCB.
- Pre-Commissioning of Isolated Phase Bus bar (IPB).

**Dates** : From Dec. 2014 till Apr. 2015  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Combined Cycle Power Plant 1500MW - Two 750MW (4x4x1)  
**Job title** : Senior Electrical Construction Engineer  
**Job Description** :
 

- Follow-up erection activity of gas turbine frame 9E.
- Follow-up erection activity of medium/low voltage switchgears.
- Follow-up erection activity of 220KV switchgear.
- Follow-up erection activity of Emergency / Black start-up systems.

- Follow-up erection activity of GSU, UAT and IPB.
- Follow-up erection activity of High voltage cables 220KV.

**Dates** : From Jul. 2014 till Dec. 2014  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant (2x312MW)  
**Job title** : Senior Electrical Maintenance Engineer  
**Job Description** :

- Maintenance of synchronous generators (420 MVA).
- Maintenance of protection relays (Generators, Motors, CB.....etc.).
- Maintenance of low and medium voltage circuit breakers.
- Maintenance of 220KV switchgear and 220KV switchyard.
- Maintenance of AC & DC Motors.
- Maintenance of emergency power systems (UPS, Diesel Generators).
- Maintenance of low, medium and high voltage transformers.
- Maintenance of motorized valves.
- Maintenance of electric elevators, fire fighting systems, electric cranes and electric fork lift (electric traction).
- Major overall of 312MW synchronous generator including (Re-winding & Re-wedging) of generator stator.
- Major overall maintenance of power transformers 420 MVA including (Dismantling of active part and Bushing, Testing and Commissioning).

**Dates** : From May 2014 till Jun. 2014  
**Employer** : Ansaldo Italy  
**Project** : 6th October Simple Cycle Power Station (2x150MW), phase II, Egypt  
**Job title** : Commissioning/Start-up Engineer  
**Job Description** :

- Commissioning of low voltage AC distribution panels.
- Commissioning 6.3KV medium voltage switchgear.
- Commissioning and start-up of low voltage motors based on DCS systems.
- Commissioning of DC distribution panels, Chargers and UPS systems.
- Commissioning of HVAC systems.
- Commissioning of main Generator Auxiliaries.
- Commissioning of Black start/Emergency diesel generator.
- Filling-up of all of test sheets.
- Start-up of gas turbine units.
- Carrying out all of Generator/Transformers site tests.
- Carrying out High voltage test of MV bus bars.

**Dates** : From Mar. 2012 till May 2014  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant (2x312MW)  
**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Maintenance of synchronous generators (420MVA).
- Maintenance of protection relays (Generators, Motors, CB, etc.).
- Maintenance of low and medium voltage circuit breakers.
- Maintenance of 220KV switchgear and 220KV switchyard.
- Maintenance of AC & DC Motors.

- Maintenance of emergency power systems (UPS, Diesel generators).
- Maintenance of low, medium and high voltage transformers.
- Maintenance of motorized valves.
- Maintenance of electric elevators, fire fighting systems, electric cranes and electric forklift (electric traction).
- Major overall of 312MW synchronous generator including (Re-winding & Re-wedging) of generator stator.
- Major overall maintenance of power transformers 420 MVA including (Dismantling of active part and Bushing, Testing and Commissioning).

**Dates** : From Jan. 2012 till Mar. 2012  
**Employer** : [EGYPTROL](#), Commissioning Subcontractor for ANSALDO ENERGIA  
**Project** : 6th October Power Station (600MW)  
**Job title** : Commissioning & Start-up Engineer  
**Job Description** :

- Commissioning of medium voltage switchgears.
- Commissioning of low voltage AC distribution panels.
- Commissioning and start-up of low voltage motors based on DCS systems.
- Commissioning of DC distribution panels, Chargers and UPS systems.
- Commissioning of HVAC systems.
- Commissioning of main Generator Auxiliaries.
- Commissioning of Black start/Emergency diesel generator.
- Arrangement of testing sheets.
- Start-up of gas turbine units.
- Carrying out all of Generator/Transformer site tests.

**Dates** : From Jun. 2010 till Jan. 2012  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant (2x312MW)  
**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Maintenance of synchronous generators (420MVA).
- Maintenance of protection relays (Generators, Motors, CB, etc.).
- Maintenance of low and medium voltage circuit breakers.
- Maintenance of 220KV switchgear and 220KV switchyard.
- Maintenance of AC & DC Motors.
- Maintenance of emergency power systems (UPS, Diesel generators).
- Maintenance of low, medium and high voltage transformers.
- Maintenance of motorized valves.
- Maintenance of electric elevators, fire fighting systems, electric cranes and electric forklift (electric traction).
- Major overall of 312MW synchronous generator including (Re-winding & Re-wedging) of generator stator.
- Major overall maintenance of power transformers 420 MVA including (Dismantling of active part and Bushing, Testing and Commissioning).

**Dates** : From Feb. 2009 till Jun. 2010  
**Employer** : [EGYPTROL](#), Seconded to ABB Manheim  
**Project** : Qatalum CAPP (2x750MW), Doha – Qatar

**Job title** : Commissioning Manager & Deputy Site Manager for ABB Scope  
**Job Description** :

- Erection and commissioning of SF6 Generator circuit breaker (GCB).
- Erection and commissioning of Automatic voltage regulator (AVR) panels.
- Erection and commissioning of power transformers up to 500 MVA.
- Erection and testing of high voltage cables (220KV and 400KV).
- Erection and testing of indoor 220KV GIS and outdoor 400KV GIS.
- Erection and testing of Isolated pressurized busduct IPB (15.75KV).
- Erection and commissioning of AC/DC distribution boards.
- Back feed and start-up of gas turbine units.
- Filling-out of test sheets.
- Carrying out of all Power transformer site tests.
- Carrying out high voltage test of H.V. cables and GIS switchgear.
- Follow-up all of activates/meetings with client.

**Dates** : From Apr. 2007 till Feb. 2009  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant (2x312MW)  
**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Maintenance of synchronous generators (420MVA).
- Maintenance of protection relays (Generators, Motors, CB, etc.).
- Maintenance of low and medium voltage circuit breakers.
- Maintenance of 220KV switchgear and 220KV switchyard.
- Maintenance of AC & DC Motors.
- Maintenance of emergency power systems (UPS, Diesel generators).
- Maintenance of low, medium and high voltage transformers.
- Maintenance of motorized valves.
- Maintenance of electric elevators, fire fighting systems, electric cranes and electric forklift (electric traction).
- Major overall of 312MW synchronous generator including (Re-winding & Re-wedging) of generator stator.
- Major overall maintenance of power transformers 420 MVA including (Dismantling of active part and Bushing, Testing and Commissioning).

**Dates** : From Feb. 2006 till Apr. 2007  
**Employer** : Dubai Electricity & Water Authority, UAE  
**Project** : E-station, K-station and L-station  
**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Maintenance of synchronous generators (more than 120MW).
- Maintenance of protection relays (Generators, Motors, CB, etc.).
- Maintenance of low and medium voltage circuit breakers.
- Maintenance of AC & DC Motors.
- Maintenance of emergency power systems (UPS, Diesel generators).
- Maintenance of low, medium and high voltage transformers.
- Major overhaul of 120MW synchronous generator including (Re-wedging & Resin injection) of generator stator winding.

**Dates** : From Mar. 2002 till Feb. 2006  
**Employer** : Upper Egypt Electric Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant (2x312MW)  
**Job title** : Shift Operation Engineer  
**Job Description** :

- Operation of 312MW steam turbines and its auxiliaries.
- Operation of 312MW steam boilers and its auxiliaries.
- Operation of 220KV switchgear.
- Co-operate maintenance staff during overall maintenance periods.

**Dates** : From Oct. 2001 till Mar. 2002  
**Employer** : Middle Egypt Electricity Distribution Company (MEEDC)  
**Project** : Assiut Distribution Sector  
**Job title** : Electrical Engineer  
**Job Description** :

- Studying scientific problems like (power factor improvement and reducing network losses).
- SCADA System Engineer.

Published Papers:

- Mazen Abdel-Salam, Yassin M.Y. Hasan, Mohamed Sayed and Salah Abdel-Satar, "Partial Discharge Classification through Wavelet Packets of their Modulated Ultrasonic Emission", Proceeding of the Fifth International Conference on Intelligent Data Engineering and Automated Learning (IDEAL' 04), pp 540-545, Exeter, UK, Aug. 25-27, 2004.
- M. Abdel-Salam, Y. M. Y. Hasan, M. Sayed and S. Abdel-Satar, "Neural Networks Recognition of Weak Points in Power Systems Based on Wavelet Features", Accepted for presentation at the 18th International CIRED Conference & Exhibition on Electricity Distribution, Turin, Italy, Jun. 6-9, 2005.