

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma in Generation and Utilization of electric power and its economics. Has over 11 years experience, including 9 years working in operation, commissioning and start-up of several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/06/1982
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, South Valley University, 2004
- : Diploma in Generation and Utilization of electric power and its economics, Cairo University (2 years studying), 2009

LANGUAGES

Arabic : Native Language
English : Very Good
French : Fair

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : PMP (Project Management Professional) course.
- : Primavera P6 training course
- : Vibration analysis training course.
- : Quality Control and Continuous Improvement by SEC.
- : ALSPA DCS system (general representation"AP01-S5" and centralog operation "CL01-S5") (Off-shore training) in Alstom Training Center and Platforms in France (5 weeks).
- : In El-Kureimat Training Center and Site:
 - On-Site training: Electrical and Mechanical Operation of GE gas turbine MS9001FA by GE Co. (General Electric Co.), 6 weeks.
 - Protection Systems of 220KV Switchyard (GIS) by Siemens AG, 175 training hours.

- On-site training: Electrical and Mechanical Operation of Siemens gas turbine V94.3A by Siemens Co.
 - Medium voltage 6.6KV and low voltage switchgear of station by Siemens AG.
 - Event and fault recorder of GIS 220KV switchyard and Power line carrier by Siemens AG.
 - Battery chargers training course by Chloride Co.
 - 500 & 220KV GIS Substation of El-Kureimat I, 2x625MW (2 months).
 - Operation of Heat Recovery Steam Generation (HRSG) system (CMI).
 - Operation of feed water pumps, condensate pumps IP & HP (Sigma).
 - Operation pipe rack, valves and IP & HP bypass (Skoda).
 - Hitachi Steam Turbine 250MW Operation training course.
 - Operation of feed water pumps, condensate pumps, pipe rack, valves and IP & HP bypass (Initec).
 - Safety and Fire fighting rules of UEEPC Training Center.
- : In the Egypt Company of Aluminum: In department central control of electrical networks of 132/10.5KV substation and 132KV/450V substations and its rectification circuits (3 months).
- : Scientific visit at High Dam Hydraulic Power Plant 2100MW, Naga Hammadi (500KV/132) Substation.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2013 till now
- Employer** : Saudi Electricity Company (SEC)
- Projects** : Independent Power Plants (IPP) & Renewable Energy:
- Rabigh #1 Thermal Power Plant 1320MW
 - Qurayyah IPP Combined Cycle (CC) Project 4099MW (6 groups)
 - PP11 CC Power Plant 1860MW (2 groups, 7GT + 2STG)
 - Rabigh #2 CC Project 2105MW (3 groups, 6GT + 3ST) (Cogeneration Project)
 - Dhuba #1 Integrated Solar Combined Cycle (ISCC) 550MW
 - Fadhili CHP (Combined Heat and Power) 1500MW CC Project (Cogeneration Project)
 - Farasan Solar PV Power Plant 500KW, school roof top 60 KW, Al-Aflag Solar PV 50MW
- Job title** : Senior Power Generation Projects Engineer
- Job Description** :
- Lead the group which monitor implementation of IPP and renewable energy projects in KSA.
 - Manage contract and negotiation of Power Purchase Agreements (PPA) and identifying the key levers that drive energy tariff.
 - Witness and review all commissioning and start-up tests.
 - Follow up implementation of IPP and RE projects, Closure of EPC LOP (List of Open point) items.
 - Monitor the economic operation of IPP, Routine Site visits and Analysis of forced outage and trip incidents and tracking of cause analysis to provide recommendations.
 - Provide Supports to Projects companies in all operative issues includes contracts, costs, deadlines, overall technical issues, Coordination between project companies and other SEC departments.

- Review and verify with department manager to correct external impacts, risk mitigation plan and evaluates overall relevant costs and propose solutions to project companies.
- Review and analysis monthly reports, incident reports and technical issues.
- Preparing studies and plans to implementation the Renewable Energy (RE) projects.
- Training new engineers.

Dates : From 2013 till now (part time)
Employer : Several clients
Job title : Solar and Renewable Energy Specialist
Job Description :

- Consultant Expert for many solar PV (on/off grid) projects.
- Design and preparing feasibility studies for several solar energy projects, such as:
 - More than 15 solar-powered well isolated from the electrical grid in Egypt (5KW – 50KW).
 - Feeding some domestics loads by solar system in Egypt & Saudi Arabia.
 - Feasibility study and options to feed loads of 90MW by off grid solar PV system in Qatar.
 - Research in types of solar cells and most efficient and classification of the most efficient models over the world.
 - Research in economics of using the LED bulbs for lighting Riyadh streets.

Dates : From Feb. 2012 till Jul. 2013
Employer : HHI (Hyundai Heavy Industrial Co.) in Saudi Arabia
Project : Riyadh Power Plant No.11 (IPP) Combined Cycle 1860MW:

- Module No 1 x 4 GE Gas Turbines MS7001FA 4x157MW (Mark VIE) x 4 (HRSG + 4 duct burners + 1 GE steam turbine) D11) with ACC (air cooling condenser)
- Module No 2 x 3 GT's 7FA x 157MW + 3 (HRSG) with duct burners + 1 GE STG with ACC
- Hydrogen generation plant have 3 H2 generator
- Water treatment plant produce demin water, Service water, Filtrate water ...
- Fire fitting systems: Water fire fitting, FM200 fire fitting and CO2 fire fitting
- N2 generation system have 2 units
- Cooling water sys with fin fans cooler
- Fuel gas system with 4 gas compressors, 5 reduction stations, 1 buffer comp. with 6 cylinders, 3 water bath heater, oil bath heater for each gas turbine, Fuel oil system (Distillate and ASL fuel oil with sodium removal sys).

Job title : Operation & Start-up Team Leader
Job Description :

- Manage all Start-up and operational tests, Inspection, Commissioning (Pre-energizing tests, over speed test, load rejection test, over/under excitation, Performance – PT – Reliability – RTR – NDCT,..... etc.).
- Combined cycle plant operation and start-up, BOP operation (cooling

water system, fuel forwarding system, fire fitting system,... etc. and Fast Acting in Emergency Cases.

- Dealing with Mark VIE controller hardware and software (control system Toolbox).
- Supervision for chemical cleaning and steam blowing for HRSG.
- Reviewing results and discuss with managers methods of improving Work performance.
- Coordinate with power dispatch center.

Dates : From Jun. 2011 till Nov. 2011
Employer : Kharafi National
Projects : Al-Shabab Power Plant
(GE GT MS9001EA 8x125MW, Mark VIe control system)
Job title : Shift Charge Engineer
Job Description :

- Gas turbine operation and start-up during commissioning and test until TOC.
- Dealing with Mark VI controller hardware and software (control system Toolbox).
- Identifying, investigating and repairing system faults.

Dates : From Feb. 2010 till Jan. 2011
Employer : Arabian BEMCO Contracting Co. Ltd. – Industrial & power projects (by MTT)
Projects :

- El-Qurayyah II Combined Cycle Power Plant – KSA (GE Gas turbine MS7001FA 15x170MW, Mark VI control)
- El-Riyadh Power Plant No. 10 (RPP10) Simple Cycle (32 gas turbines x 65MW (GE GT MS7001EA), Mark VIe control)

Job title : Shift Charge Engineer
Job Description :

- Gas turbine operation and start-up, BOP operation (cooling water system, fuel forwarding system, fire fitting system, ...etc. and Fast Acting in Emergency Cases).
- Supervise all start-up and operational tests, Inspection, Commissioning (Pre-energizing tests, over speed test, load rejection test, over/under excitation, Performance – PT – Reliability – RTR – NDCT, ...etc.).
- Dealing with mark VI and mark VIE controller hardware and software.
- Identifying, investigating and repairing system faults.
- BOP operation (cooling water system, fuel forwarding system, fire fitting system).
- MV & LV operation (15.75KV, 13.8KV, 6.3KV, 4.16KV,).
- Reviewing results and discuss with managers methods of improving the Work performance.

Dates : From Dec. 2006 till Feb. 2010
Employer : Upper Egypt Electric Production Company (UEEPC)
Projects :

- El-Kureimat III Combined Cycle Power Plant (750MW):
 - GE Gas turbine MS9001FA (2x250MW, Mark VI control).
 - Alstom steam turbine (1x250MW, AlspAP320 control system).
 - 2 Heat Recovery Steam Generators (HRSG), CMI – Initec.
 - The plant is controlled via AlspAP320 DCS control system.

- EI-Kureimat II Combined Cycle Power Plant (750MW):
 - Siemens GT V94.3A 2x250MW "Teleperm XP" + 2 HRSG by CMI & SKODA
 - Hitachi steam Turbine 1x250MW "Mark VI control" + EMERSON – WDPF DCS control system
- Job title** : Start-up & Operation Engineer
- Job Description** :
- Combined cycle power plant operation and start-up.
 - Supervise GE and SIEMENS gas turbines, Steam Turbine, HRSG's, generators testing and Commissioning, chemical cleaning with CMI Company and steam blowing.
 - Dealing with mark VI controller hardware and software.
 - MV & LV operation and G. I. S. switchyard 220KV operation, Supervise all Identifying, investigating and repairing system faults.
 - Training new engineers.
- Dates** : From Jun. 2006 till May 2008
- Employer** : Upper Egypt Electric Production Company (UEEPC)
- Project** : GIS switchyard 220KV and switchgear (15.75KV, 6.3KV, 400V) of EI-Kureimat Combined Cycle Power Plant (2x750MW) (6 power transformers and 8 outgoing)
- Job title** : Electrical Engineer
- Job Description** :
- Operation Siemens 220KV GIS 1.5CB Arrangement.
 - Carry out the maneuvering of connect and disconnect (6 power Transformers, 8 Transmission lines).
 - Carry out safety isolation and precautions Fast Acting in Emergency Cases.
 - Supervising 220KV C.B.'s, disconnectors, MV & LV SWGR, Power Transformers and Protection devices, C.T.'s and V.T.'s testing and commissioning.
- Dates** : May/Jun. 2006
- Employer** : FERCON Factory (Manufacturing electrical wires for cars)
- Job title** : Production Engineer
- Dates** : From Feb. 2006 till Apr. 2006
- Employer** : Al-Mazen Co. (delegation of Unionaire)
- Job title** : Construction Engineer
- Job Description** : Installation and maintenance of air conditioners.
- Dates** : From Aug. 2004 till Jan. 2006
- Employer** : EI-Mohandeseen for Computer Services
- Job title** : Maintenance Engineer
- Job Description** : Software and hardware maintenance of computers.
- Field of experience** :
- Senior Electrical Power Generation Projects Engineer in Saudi Electricity Company, Independent Power Plants (IPP) & Renewable Energy Sector: Leading the group which monitor implementation of all IPP and renewable energy projects in KSA (11434.5MW). Manage

contracts and negotiation of Power Purchase Agreements (PPA) and identifying the key levers that drive energy tariff and Witness and review all commissioning and start-up tests.

- Operation Team Leader in Riyadh P.P. 11 Combined Cycle (IPP Project) 1860MW, Riyadh P.P. 10 Simple Cycle "34 GE gas turbines" 2200MW and Qurayyah Combined Cycle Project (GE 4200MW) – Operation & Start-up Engineer in Al-Shabab Power Plant Simple Cycle 1000MW (8 GE GT's), El-Kureimat III Combined Cycle Power Plant 750MW (2 GE GT's + Alstom ST) and El-Kureimat II Combined Cycle Power Plant 750MW (2 Siemens GT's + Hitachi ST).
- Follow up implementation and operation of 60KW, 500KW and 50MW Solar PV plant.
- Electrical commissioning experience in Siemens GIS 220KV in El-Kureimat (1.5CB sys.).