

Holds a B. Sc. in Electronics & Communications Engineering and has about 12 years hands-on experience working in I&C field and operation at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/06/1981
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electronics & Communications Engineering, Tanta University, 2003

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training course on STEAM TURBINE MAINTENANCE, TRAINING CENTER MANNHEIM (GERMANY) for ALSTOM steam turbine (Dec. 2009).
- : Training on steam turbine (Turbine Process On-shore Training Course for the maintenance personnel), Apr. 2010.
- : Training on Control valve problems (BTG Valve & Smartrak Maintenance), May 2010.
- : Training on Operation and Maintenance of Debris Filter system (DF) & Condenser On Load Tube Cleaning system (COLTCS), Mar. 2010.
- : Training on Operation and Maintenance of the Alstom CM Condenser (Apr. 2010).
- : Training on Operation and Maintenance of Condenser Exhauster Vacuum Pump Units & Water box Priming Units (May 2010).
- : Training on Operation and Maintenance of Protection for Transformer (Apr. 2009).
- : Training on Operation and Maintenance of DC & UPS System (May 2009).
- : Training on Operation and Maintenance of Combined Cycle unit (MDEPC).
- : Training on Operation and Maintenance of Gas Turbine (MDEPC).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2016 till now
Employer : ALGHANIM INTERNATIONAL Company
Project : AZ ZOUR South Combined Cycle Power Station:

- 8x125MW Siemens Gas Turbines Type V94.2.
- 8 Horizontal HRSG.
- 2 Siemens Steam Turbines 250MW (HP, LP stages).
- Auxiliaries (service, closed cooling, circulating systems....etc.).
- Medium and Low Voltage Switch Gears.

Job title : I&C Maintenance Engineer

Dates : From Jan. 2016 till Mar. 2016
Employer : [EGYPTROL](#), GE Energy Subcontractor
Project : Gerga GE TM 2500
Job title : Operator & Maintenance Engineer

Dates : From Jun. 2015 till Nov. 2015
Employer : [EGYPTROL](#), GE Energy Subcontractor
Project : Samalut GE TM 2500
Job title : Operation Engineer
Job Description :

- Preparation the unit for operation (mechanical & electrical).
- Start-up from stand still till base load and monitoring it.
- Shut down till stand still.
- Off line compressor water wash.
- Change low pressure liquid fuel filter.
- Change high pressure liquid fuel filter.
- Clean the chip detectors.
- Increase the turbine lube oil or change it.

Dates : From Apr. 2006 till May 2015
Employer : Middle Delta Electricity Power Production Company (MDEPC)
Project : Nubaria Combined Cycle Power Plant:
Consists of 3 modules x 750MW:

- Four SIEMENS gas turbines 4x250MW.
- Two GE gas turbines 2x250MW.
- Two MITSUBISHI steam turbines 2x250MW.
- One ALSTOM steam turbine 1x250MW.
- Four ALSTOM heat recovery steam boiler (HRSG).
- Two STF heat recovery steam boiler (HRSG).

Job title : I&C Construction, Commissioning, Start-up & Maintenance Engineer
Job Description :

- I&C Engineer in Siemens gas turbine V94.3A (from Jan. 2010 till Jun. 2015) in the following experience fields:
 - Fuel gas and fuel oil commissioning and start-up.
 - Fuel oil commissioning and start-up.
 - Maintenance and fault recovery for Automation control system (TELEPERM XP AS 620B) software and its hardware components such as (power supply cards, CPU, interface modules and

- input/output cards).
- Maintenance and fault recovery for Fail safe control system (AG 95F) software and its hardware components such as (power supply cards, CPU, interface modules and input/output cards).
- Maintenance and fault recovery for GOVERNER system (AS 620T) software and its hardware components such as (power supply cards, CPU, interface modules and input/output cards).
- Major and minor inspection for the gas turbine.
- Hot gas path inspection.
- Gas turbine tuning and optimization.
- Troubleshooting of the control system problems.
- Calibration of the field devices transmitters, switches, gagesetc.
- Calibration of all field instruments and testing, installation of all turbine supervisory instruments (TSI) (Vibration probes and proximity transducers, Speed sensors, ...).
- Fault analysis using the OM 650 display facilities.
- Tools for system analysis, administration, event managing of OM 650.
- Analysis hardware and software errors.
- Dealing with the input/output cards, installation, Programming and faults recovery.
- PLC programming and troubleshooting.
- Temperature sensors RTD and Thermocouple faults recovery.
- Gas detection system, fire alarm system and fire fighting system.
- I&C Construction, Commissioning, Start-up Engineer in GE 9FA Gas Turbine (from Dec. 2008 till May 2010) in the following experience fields:
 - Mark VI control system (Toolbox & cimplicity).
 - GT basics study and principle of operation.
 - Device summary and piping schematics.
 - Cimplicity and toolbox trends.
 - TMR Philosophy.
 - Mark VI panel layout.
 - Mark VI modules overview.
 - Toolbox hardware and I/O definition.
 - Toolbox options (I/O reports, hardware signals tracing, replacing I/O cards & UCVX controller card, go ON/OFF line, major/minor/equal differences, Saving, log reports, validate, build, download, alarm list, constant list, Finder, forcing signals, changing control constants, alarm tracing, diagnostic Alarms).
 - Software introduction (functions/modules/tasks/pins, using sequences, Macros).
 - Working as an I&C Owner during the commissioning and start-up of GE gas turbine.
 - Making loop check and sequence check of all Mark VI signals.
 - Working as I&C Engineer during the warranty inspection of two GE gas turbines.
 - Troubleshooting of GE gas turbine alarms and failures.
 - Hazard Gas System.
 - Calibration of all field instruments and testing, installation of all turbine supervisory instruments (TSI) (Vibration probes and proximity transducers).
- I&C Construction, Commissioning, Start-up Engineer in Alstom Steam Turbine (from Dec. 2008 till Jan. 2010) in the following systems:

- Calibration of all instruments in field (pressure transmitters & switches – level transmitters & Switches – thermocouples – RTDs – flow transmitters & Switches – smart valves – auma valves – rotork valves).
- Commissioning and maintenance for debris filter and condenser tube cleaning system.
- Commissioning and maintenance of the service and instrument air compressors (COMPAIR).
- Commissioning and maintenance for auxiliary system such as circulating water pump, service water pump, closed cooling water pump and condensate water pump.
- Commissioning and maintenance for vacuum system.
- Commissioning and maintenance for lub. oil & hydraulic system.
- Commissioning and maintenance for HP bypass & IP bypass.
- Following up (Calibrations, loop check, function test, start-up and commissioning) of ALSTOM Steam turbine in Nubaria Power Station III.
- Operation Engineer (from Apr. 2006 till Dec. 2008):
 - Start-up and Operation of Gas Turbine GE 9FA (Nubaria Combined Cycle Module III (750MW) (2 Gas Turbines GE 9FA & 2 STF HRSG and 1 Steam Turbine ALSTOM).
 - DCS Operator Engineer at Nubaria Power Station Modules I & II Combined Cycle (1500MW) (4 Gas Turbines Siemens V94.3A, 4 Alstom HRSG and 2 Steam Turbines Mitsubishi).

Further experiences : I&C Construction and Commissioning Engineer in GE Gas Turbine TM2500: I have good experience in GE Gas Turbine TM2500 in the following systems:

- Dual fuel system with water injection system.
- Ventilation and combustion air system.
- Hydraulic start system.
- Turbine lube oil system.
- Gen. lube oil system.
- Off-Line water wash system.
- Instrumentation auxiliary system.
- Vibration monitoring system.
- Fire protection and gas detection system.
- Low voltage AC&DC system.
- Communication gate way module.
- Analysis hardware and software errors.
- Maintenance and fault recovery for any system in TM2500.