

Holds a B. Sc. in Electronics & Communication Engineering and has over 13 years experience working in construction, maintenance, operation, commissioning, start-up and I&C at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 26/12/1987
Gender : Male
Marital Status : Married
Residence : New Damietta

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Institute of Aviation Engineering and Technology, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Training program (for combined cycle DCS) in the following topics 5001 EVO Configuration Essentials / 5300 EVO Process Operation / 5200 EVO Equipment Maintenance / 5612 EVO Control Editor Schneider Electric (formerly INVENSYS), Sesto San Giovanni, Milano, Italy (May/Jun. 2017).
- : HRSG Operation (design, I&C, pressure parts, valves and actuators, main components), AC BOILERS (formerly Ansaldo Caldaie), Gallarate, Varese, Italy (Sep./Oct. 2016).
- : GE EX2100 Generator Regulator & Generator Protection Panel (GPP), GE Energy, West Damietta Power Plant, Egypt (Nov./Dec. 2015).
- : Protection Relays Principle, ALSTOM GRID, West Damietta Power Plant, Egypt (Aug. 2015).
- : B105 - Gas Insulated Substations, ALSTOM GRID, West Damietta Power Plant, Egypt (Aug. 2015).
- : DS Agile - Operation and Maintenance, ALSTOM GRID, West Damietta Power Plant, Egypt (Aug. 2015).

- : Operation and maintenance for Hydrogen generators (HOGEN H-Series hydrogen generation systems), PROTON, West Damietta Power Plant, Egypt (Jan. 2018).
- : Steam turbine operation, ANSALDO ENERGIA, West Damietta Power Plant, Egypt (Feb. 2018).
- : Steam turbine (GE D202) operation & combined cycle operation, GE, West Damietta Power Plant, Egypt (Mar. 2018).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2018 till now
- Employer** : East Delta Electricity Production Company (EDEPC)
- Project** : West Damietta Combined Cycle Power Plant 1 & 2
- Job title** : I&C Engineer
- Job Description** :
- Working on systems:
 - DCS Foxboro EVO V6.0.
 - Mark VIe (GE STG D202 250MW, GT frame 9E 125MW, DCS).
 - METSO DNA DCS system.
 - ABB Symphony plus, BRC410 Ansaldo STG 250MW.
 - Able to do first installation of Mark VIe panels and Toolbox installation configuration of CRM and local check out HMI units.
 - Perform all Cold, Hot loop checks and function test activities.
 - Troubleshooting the problems by using mark VIe Toolbox and analyze trip log history.
 - Calibrate and test all types of control valves including Gas, liquid and IGW (gas turbines).
 - Calibrate and test all types of control valves (HRSGs, Steam turbines).
 - Calibrate and test flow, pressure, level, temp, vibration transmitters ON/OFF valves, and Water quality analyzers for (HRSGs, Steam turbines, gas turbines, water treatment and RO plant).
 - Perform all inspections for shutdown maintenance tasks.
 - Troubleshooting for services and instrument air compressors.
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- Dates** : From Jun. 2015 till Oct. 2018
- Employer** : East Delta Electricity Production Company (EDEPC)
- Project** : West Damietta Combined Cycle Power Plant 1 & 2
- West Damietta 1 Power Plant:
 - 4x125MW gas turbines GE frame 9E (dry low NOx fuel nozzle).
 - 4 x HRSGS (AC BOILERS) HP, LP and aux operated by Invensys DCS.
 - 1 ANSALDO steam turbine 265MW operated by ABB symphony harmony control.
 - Air cooled condenser.
 - 220KV GIS: Operating on (one & half) breaker scheme connecting and disconnecting (SF6 CB, Switches, Earthing).
 - West Damietta 2 Power Plant:
 - 4x125MW gas turbines GE frame 9E (standard fuel nozzle).
 - 4 HRSGS (DOOSAN) HP, LP.
 - 1 steam turbine GE 265MW and all the plant operated by GE mark

6E control.

- Air cooled condenser.
- 220KV GIS: Operating on (one & half) breaker scheme connecting and disconnecting (SF6 CB, Switches, Earthing).

Job title : Operation Senior Engineer
Job Description :

- Attended construction, commissioning and start-up of gas turbines GE frame 9E at West Damietta 2 Power Plant (received certificate of recognition from GE for my efforts during the project).
- Attended construction, commissioning and start-up of GT hot gas path outage.
- Attended construction, commissioning and start-up of converting existing simple cycle to combined cycle at two projects:
 - 1st Project: Ansaldo Energia (West Damietta 1):
 - ❖ 4 x horizontal HRSG - AC Boilers (4x125MW GE frame 9E).
 - ❖ 1 x steam turbine MT20 - Ansaldo (1x265MW).
 - 2nd Project: GE (West Damietta 2):
 - ❖ 4 x horizontal HRSG - Doosan (4x125MW GE frame 9E).
 - ❖ 1 x steam turbine D202 - GE (1x265MW).

Dates : Jun. 2015
Employer : East Delta Electricity Production Company (EDEPC)
Project : Attaqa Simple Cycle Power Plant
Job title : Commissioning, Trainer and Start-up Engineer
Job Description :

- Attended commissioning and start-up of gas turbine Siemens 2000E.
- Train Operation Engineers to operate the SIEMENS gas turbines 2000E (controlled by T3000).

Dates : From Feb. 2010 till Jun. 2015
Employer : East Delta Electricity Production Company (EDEPC)
Project : Damietta Combined Cycle Power Plant:

- 6x135MW SIEMENS gas turbine operated by T3000 control.
- 6 HRSGs (BORSG) HP, LP PRESSURE and aux operated by Emerson DCS.
- 3x135MW ALSTOM steam turbine MW operated by ABB control.

Job title : Operator & Shift Charge Engineer
Job Description : Attended plant control system upgrade, commissioning and start-up:

- Gas turbine Siemens v94. 2 from teleperm & Simadin control to T3000 control.
- Steam turbine Alstom from celeglic RAC 920 to ABB AC-800M control.

Field of experience :

- Experience in maintenance and operation:
 - CCPP (maintenance & operation).
 - RO Water Plant & Water Desalination Plant (MSF) & Water Treatment Plant (maintenance).
- West Damietta Combined Cycle Power Plant 1 & 2 - Commissioning and Start-up:
 - Carry out cold commissioning and hot commissioning for HRSGs as following:

- ❖ Follow the completing of erection works and make components check list.
- ❖ Supporting and follow all pre-commissioning activities as hydro tests and chemical cleaning procedure.
- ❖ Make punch items to release commissioning to start.
- ❖ Follow HRSGs line up and initial filling and initial firing.
- ❖ Carry out steam blowing for all steam lines.
- ❖ Follow all boiler Pumps and motors solo run and heat run tests.
- ❖ Follow Safety valves pop up testing and test gags removing.
- ❖ Follow all Function check for all signals and valves.
- ❖ Start-up / shut down sequence checking as per manufacture instructions.
- ❖ Follow Trouble shooting supporting and maintenance program making as per vendor recommendations.
- ❖ Follow performance test.
- Attend Function Tests for all Equipment's, Air blowing, Hydraulic tests, Fuel oil flushing, Lube oil flushing, Water system flushing, Turning Gear Operation, GT's First Firing by Gas, Steam blowing (continues or pulsations), ACC hot cleaning, Bypass operation, Loops check, DCS signals and logics check, Steam admission and warm up speed, Automatic Turbine Tester (ATT), Dummy synchronizing, Runback test, Partial load rejection, Full load rejection, Cold start-up, Warm start-up, Hot start-up, Pre-Performance Test, actual Performance Test (PT), Reliability Test Running (RTR), Preservation HRSG and steam lines.
- Operation Senior Engineer:
 - Train operation engineers to operate combined cycle power plant.
 - Manage and supervise for all activities related to commissioning & start-up and operation of Combined Cycle Power Plant.
 - Follow Commission, steam blow out and operation for HRSGs & all auxiliary.
 - Follow all commissioning activities in DCS and local sides.
 - Follow the dispatch load request.
 - Follow periodical test (valve tests, DC equipments).
 - Follow Shut down and start-up Gas Turbines, HRSGs and STEAM TURBINE.
 - Follow operating the units in disturbed situation.
 - Collect and analyze periodical data.
 - Follow and deal with alarms in control room.
 - Perform necessary before equipment start-up.
 - Follow operation specification.
 - Analyze equipment efficiency.
 - Check availability of stand by equipment.
 - Record and write all necessary information (log book).
- Skills:
 - Hands-on experience in the operation of Power Generation Plant.
 - In-depth knowledge of safe handling practices of flammable gases, liquids and high-pressure systems.
 - Excellent decision-making skills and strong mechanical skills.
 - Transparency in reporting of production process problems, sharing

- of knowledge and lessons learned.
- Follow instructions of safety rules to keep no injures to persons in the plant.