

**102171-CSX-15CMOSx-E-2001**  
**I&C Construction & Commissioning Engineer**

Holds a B. Sc. in Communication & Electronics Engineering and has about 20 years hands-on experience, mainly working in I&C field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/06/1974  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## EDUCATION

: B. Sc. in Communication & Electronics Engineering, Menoufia University, 2001

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Training course on SIEMENS GAS TURBINE (V94.3A) and combined cycle, Abu Qir Training Center (Mar. 2007).
- : Training course on GE gas turbine (9FA), Nubaria Power Station (on-shore training) (Apr. 2009).
- : Training course in YOKOGAWA Middle East Training Center Bahrain (off-shore training) (Oct./Nov. 2009):
  - CS3000 fundamentals for operation.
  - CS3000 fundamentals for engineering.
  - CS3000 maintenance.
- : Training course on STF HRSG (15 days on-shore maintenance training) for a 750MW - Nubaria Project III – for two units of HRSG, Contract 10049 – CP-105.
- : PSP Power System Projects training course on closed circuit for television (CCTV).
- : Training course on Mark VI controls GE gas turbine (from Apr. till Jun. 2009).
- : Training course on Mark VIe controls speedtronic opflex ETS with auto tune MX.

- : English course in Nubaria Power Station.
- : Training course on erection operation and maintained of solar treatment plant (Sep. 2009).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2009 till now  
**Project** : Nubaria Combined Cycle Power Station, Module III (750MW), DCS:

- Two GE gas turbine 250MW frame MS9001FA.
- Two horizontal boilers STF HRSG.
- One ALSTOM steam turbine 250MW (HP, IP, LP stages).
- Auxiliaries (service, closed cooling, circulating systems, etc.).
- 500KV switchyard.
- Medium and Low Voltage Switchgears.
- Pacis.

**Job title** : I&C Construction & Commissioning Engineer

**Dates** : In 2017  
**Employer** : [EGYPTROL](#), SIEMENS AG Subcontractor  
**Project** : Burullus Power Plant

**Dates** : From May 2007 till May 2009  
**Project** : Nubaria Combined Cycle Power Station (2x750MW)  
 (Control 500KV switchyard) & steam turbine  
**Job title** : Operation Engineer

**Dates** : In 2006  
**Employer** : TOMTHON Factory, Borg El Arab  
**Job Description** : General Manager of production and the Boss Manager of this factory.

**Dates** : In 2005  
**Employer** : ATA National Factory in 6 of October  
**Job title** : Maintenance & Production Engineer

**Dates** : In 2004  
**Employer** : SONY Company to house devices and computer hardware maintenance in Alexandria  
**Job title** : I&C Engineer

**Dates** : From 2002 till 2003  
**Employer** : RONIX MASR Company for fire-fighting, electronic gates fire alarm, seven segment circuit board design in 6 of October  
**Job title** : I&C Engineer

### **Job details in Power Stations:**

- Making combustion inspection (CI), hot gas path (HGP) and major

inspection gas turbine 9FA.

- Making major overhaul in Shoaiba Power Plant KSA 400MW steam turbine (2020).
- Making major overhaul ALSTOM steam turbine generator alaspa p320 TGC-S V2+ (2022).
- Making major overhaul Alstom and Siemens gas turbine.
- Commissioning & start-up:
  - Testing and installing of all turbine supervisory instruments TSI (Vibration probes and proximity transducers).
  - Review all I&C drawings & technical submittals.
  - Review I&C systems integrity and fitness according to Contract Requirement and standards.
  - Commissioning, start-up, Function test and tuning activities).
  - Following-up of all field instruments installation, calibration and testing.
  - Read and understand (Electrical, piping and Instrumentation) drawing.
  - Maintenance of several kinds of sensors, smart transmitters, valves and actuators. All field Instrumentation and valves Calibration and troubleshooting.
  - Maintenance of Fire-fighting and detection system, Gas detection system.
  - Review fire-fighting rules in Egypt and Arab country.
  - Calibration all instruments in fire-fighting and fire alarm system.
  - Hot loop check and cold loop check for firefighting system.
  - Commissioning, start-up and maintenance for service water pump and lubricant skids.
  - Commissioning, start-up and maintenance for travelling water screens. And now make troubleshooting in this system and deal with ALLAN BRADLY plc (trash rack).
  - Making tests at water treatment station in Nubaria Power Station.
  - Commissioning, start-up, installation, maintenance of closed circuit for television system (CCTV).
  - Commissioning and start-up for closed cooling water pump and demi water pumps.
  - Commissioning and start-up and now troubleshooting for LLIWS.
  - Commissioning and start-up for circulating water pumps and condensate water pumps.
  - Megger and continuity test for control cables.
  - Supervise the installation and calibration for ultrasonic level transmitters (Rosemount 3100) and setting of universal control.
  - Maintenance and installation of Pneumatic and motorized valves.
  - Supervise the installation of all general electric field mounted (CP-117).
  - Maintenance of thermocouples for measuring turbine casing temperature (thermocouple, RTD).
  - High experience in maintenance electronics circuits (PCB) and read careful data sheet and P&ID.
  - Ability to use hart communicator (375) and (475).
  - Familiar with contractor technical specification and P&ID.
  - Supervise the installation and adjustment of Vibration sensors (seismic and proximities) for measuring case vibration and shaft vibration for turbine and generator, and also shaft (axial)

- displacement of rotor.
- Supervise loop check and function test for all instrument devices (RTD, thermocouples, transmitters, switches, flow meters...).
- Supervise the installation and commissioning of DCS and PLC control systems as well as logic test for all systems.
- Calibration of all field instruments including:
  - ❖ Pressure (switches, transmitters and indicators).
  - ❖ Temperature switches and transmitters, RTDs and thermocouples.
  - ❖ Flow transmitters (DP type, magnetic type and turbine type, and ultrasonic type).
  - ❖ Level switches and transmitters of float and ultrasonic types).
  - ❖ Pneumatic control valves and ON-OFF valves, AC & DC solenoids.
- For GE steam turbine and gas turbine GE 9FA, 9E, 9F toolbox St v06.02.06c DCS (2018):
  - Good experience mark V1e steam turbine, DCS and gas turbine.
  - Working as I&C Commissioning & Start-up Engineer in Nubaria and West Damietta Power Plant in DCS make modification in the logic change parameter as it need at HRSG 2A, 2B, 2C, 2D 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, alarm list, constant list, finder, forcing signals, changing control constants, alarm tracing, diagnostic alarms), BOP system feed water pumps, chemical, bypass (HP, LP).
  - I&C Maintenance Engineer on GE gas turbine 250MW.
  - Working as I&C Engineer during the combustion inspection (CI), Warranty inspection and Major inspection of two GE gas turbines.
  - Hot gas path inspection.
  - Troubleshooting of GE gas turbine alarms and failures.
  - Fuel gas, oil construction, commissioning and start-up.
  - Water compression – water injection into air intake construction, commissioning and start-up.
  - Responsible of warranty claims and spare part in between the owner and GE party.
  - Fire protection and gas detection system.
  - Attend the gas turbine control migration MARK V1e.
  - Attend the gas turbine upgrade DLN2.6+.
  - Fault analysis using toolbox, toolbox ST display facilities.
  - Maintenance and calibration of Gas hydraulic Servo valves (Woodward valves), liquid fuel servo valves (MOOG) and IGV servo valve tuning and adjusting of Pneumatic control valves and on-off valves. Vibration probes, proximity transducers and Seismic Sensors, Speed sensors, DC LVDT.
- For Alstom steam turbine Alspa P320 TGC-S V2+:
  - Commissioning and start-up for ALSTOM steam turbine generator Alspa P320 TGC-S V2+.
  - Following up (calibration, cold loop check, hot loop check).
  - Supervise the installation of junction boxes and the connection between them and control panel (CLC, and OLC).
  - PLC step 5 & step7 Siemens programming and troubleshooting.
  - Working as I&C Owner Representative during the commissioning

- and start-up of Alstom ST, GE gas turbine, HRSG and DCS.
- Read the logic and tracing the signals using controcad.
- Supervise the installation and maintenance of STG and auxiliaries (Lube Oil Skid, Gland Steam Condenser, Vacuum Condenser Pumps, and Debris Filter).
- Performing the required maintenance programs of steam turbine including daily, weekly, monthly, semi-annually and annually maintenance.
- Responsible of warranty claims in between the owner and STG party.
- Receiving spare parts of STG steam turbine.
- Maintenance Engineer after TOAC in Alstom steam turbine.
- Good experience in maintenance (ATLSCOPECO) compressors and its dryers' model (CD100 & CD80).
- Maintenance of Fire-fighting and detection system, Gas detection system.
- Review fire-fighting rules in Egypt and Arab country.
- Calibration all instruments in fire-fighting and fire alarm system.
- Hot loop check and cold loop check for firefighting system.
- Fault analysis using controcad display facilities.
- Vibration monitoring system (Bentley Nevada).
- Read the logic and tracing the signals using CONTROCAD stations.
- Attend the steam turbine upgrade in the controller.
- Make troubleshooting for Demineralization water system, debris filter, tube cleaning and condensate pumps.
- For Siemens gas turbine QIPP:
  - Working in Burullus (2016) CCPP 4800MW control T3000 as Commissioning Engineer in the following systems in the generator: Seal oil system – seal oil cooler – generator cooler system – generator systems chaltplan - hydraulic oil system and generator SGT5-8000 in GT42, 41, 32, 31.
  - Following up (Calibrations, loop check, function test, start up and Commissioning) of Siemens Gas Turbine in Burullus Power Station.
  - Installation and tests of junction boxes and the connection between them and control panel (CLC, and OLC).
  - Working in QIPP (2013) Qurayyah independent power project in Damam with Samsung company C&T in Kingdom of Saudi Arabia as Commissioning I&C Engineer in (BOP) the following system: Demineralization water system & potable water system & instrument and service air compressor (atlas copco) & QMS system south, north, sea water intake & foam system & fuel oil system & fire protection system & gas conditioning and metering system& natural gas system (atlas copco) & waste water system.
  - Following up (Calibrations, loop check, function test, start up and Commissioning) of Siemens Gas Turbine.
- In Nubaria Power Station I & II:  
For Siemens gas turbine v94.3A:
  - Hot gas path inspection.
  - Major and minor inspection for the gas turbine.
  - Automation control system (TELEPERM XP, AS620, OM650, ES680) simulation and back up in the field.
  - Fuel gas construction, commissioning and start-up.

- Fuel oil construction, commissioning and start-up.
- Water compression – water injection into air intake construction, commissioning and start-up.
- Fail safe control system (SIMATIC S5-95F).
- Turbine digital control system (simadyn D4.2.7a).
- PLC step 5 & step7 Siemens programming and troubleshooting.
- Fault analysis using OM 650 display facilities.

- Field of experience :**
- Good experience in the field of instrumentation & installation, construction supervision, calibration, maintenance, pre-commissioning, commissioning and start-up in the power stations.
  - Start-up and operation steam turbine.
  - Start-up and operation gas turbine.
  - Start-up and operation steam power station and combined cycle power station.
  - Start-up and operation all auxiliary systems (service water, closed cooling water, circulating water, compressed air, etc.).
  - Check and operation the field equipments (valves, pumps, transmitters, etc.).