

Holds a B. Sc. in Communication & Industrial Electronics Engineering and has over 14 years' experience working in I&C field at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 04/08/1986  
Gender : Male  
Marital Status : Married  
Residence : Currently KSA

## **EDUCATION**

: B. Sc. in Communication & Industrial Electronics Engineering, Menoufia University, 2008

## **LANGUAGES**

Arabic : Native Language  
English : Fair

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : OFF-SHORE: One-month training on steam turbine control system in ANSALDO ENERGIA Company in Italy.
- : OFF-SHORE: one week in ABB Company for PGP & Symphony Harmony Infi90 (ABB) Control system in Italy.
- : OFF-SHORE: One-month training on DCS system (CENTIM VP) in YOKOGAWA MIDDLE EAST Company in BAHRAIN.
- : ON-SHORE: One-month training on steam turbine control system in ANSALDO ENERGIA Company in site.
- : ON-SHORE: one week in ABB Company for PGP & Symphony Harmony Infi90 (ABB) Control system in site.
- : ON-SHORE: One-month training on DCS system (CENTIM VP) in YOKOGAWA MIDDLE EAST Company in site.
- : ON-SHORE: One-week training on pneumatic control valves course in ANSALDO CALDAIE in site.
- : ON-SHORE: One-week training on motorize operating valves course in ANSALDO CALDAIE in site.

- : ON-SHORE: One-week training on instruments & control course in ANSALDO CALDAIE in site.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2021 till now  
**Employer** : Saudi Electricity Co.  
**Project** : KSA  
**Job title** : I&C Maintenance Engineer  
**Job Description** :
  - The main control system for gas units GE GAS TURBINE GE7FE.05 (6 GAS TURBINES).
  - The main control system in the air compressors ATLAS COPCO.
  - The main control system in the gas compressors PLC STEP 7, Water Bath Heater PLC STEP 7.
  - The main control system of the hydrogen generation cell PLC STEP 7.
  - The main control system of the plant DCS YOKOGAWA CENTUM VP.

- Dates** : From Jun. 2018 till Jul. 2021  
**Employer** : SHANAHAN ENGINEERING LIMITED COMMISSIONING COMPANY  
**Project** : POWER PLANT PROJECT PP14 RIYADH SAUDIA ARABIA  
**Job title** : I&C Commissioning Engineer  
**Job Description** :
  - Worked at Mark vie FOR GE GAS TURBINE GE7FE.05 (6 GAS TURBINES).
  - FIRST ENERGIZED MARK VIE CABINET WITH VENDOR CHECK GROUNDING & CHECK AC, DC POWER SUPPLY SOURCE THEN POWER UP EACH BOARD ACCORDING TO WIRING DIAGRAM.
  - All field instruments (thermocouples, vibration, flow, pressure and level transmitters, all servo valves and pneumatic actuators) Calibration, Installations & commissioning loop check with control system.
  - Loop check for digital valve positioner (DVP) for gas valves.
  - All pneumatic valves solenoids tested & adjust all limit switches for these valves.
  - IGV & VSV calibration LVDT also check servo coils current, resistance, volt.
  - Dynamic sensors loop check by transducer simulator.
  - Calibration IBH control valves fisher 6200.
  - Calibration all cooling valves which use I/P CONVERTRT & two proximate switches.
  - Calibration MOTORIZED valves & pneumatic control valves fisher 2000 when we do commission for seal oil.
  - Adjust speed sensors gap and do hot loop check during turning gear work.
  - APU PLC commissioning & Air intake PLC commissioning where test solenoids.
  - CO2 system check all zones HEAT detectors & horns.
  - CO2 Purge skid PLC CHECK with vendors.
  - Seismic sensor hot loop check.
  - Check all vibration sensors with vendor where we have:
    - Generator vibration sensor we do hot loop check by inject volt AC

- by Druck and check in the BENTLY NEVADA 3500 system.
- Bearing vibration sensor hot loop check.
- BLADE HEALTH MONITORING (BHM) system check.
- Check interface signal's between MARK VIE & YOKOGAWA DCS.
- Hazard gas sensor XNX, MSA reconfiguration sensor from Methane to propane & calibration the sensor's by calibrated cylinder.
- Generator RTD hot loop check.
- Crank speed test where speed reach to 788 RPM.
- Redundancy controller R, S, T test at crank speed also check DC lube oil pump.
- Function test for LCI & N2 purge skid & recirculation system at crank speed.
- Offline water wash at crank water wash 529 RPM before first fire.
- First fire, Sync for the turbine by liquid fuel (ASL).
- First energization PLC siemens step 7 for control three gas compressor Atlas Copco:
  - Where we check all field instrument motorize valve's, solenoid valve's, pneumatic valve's, Yokogawa transmitter's & temperature transmitter'.
  - Review all setpoint during loop check, function test.
- DCS Yokogawa centum VP review all logic, interface signal's, review graphics & troubleshooting for any hardware problem.

**Dates** : From May 2017 till Jun. 2018  
**Employer** : GS ENGINEERING & CONSTRUCTION KOREAN COMPANY  
**Project** : OIL & GAS (REFINERY PROJECT) ERC PROJECT  
**Job title** : I&C Engineer  
**Job Description** :
 

- System Engineer, doing modification on logic & graphic (HONEYWELL EXPERION SYSTEM).
- Function test for logic of utility & VDU & NHT...
- Loop check for all transmitter's & control valves & switches.
- Calibrate all transmitter's & switches.
- Prepare all folder's for function test.

**Dates** : From Jun. 2013 till May 2017  
**Employer** : Middle Delta Electricity Production Co. (MDEPC)  
**Project** : New Project of 750MW Combined Cycle Power Station  
**Job titles** :
 

- From Jan. 2014 till May 2017 (after project complete): I&C Maintenance Engineer in same project for the steam turbine and DCS control system
- I&C Engineer of 1x250MW ANSALDO ENERGIA steam turbine with Symphony Harmony Infi90 (ABB) control system
- DCS Engineer of YOKOGAWA DCS (CENTUM VP) for BOP and 2 HRSG control system

**Job Description** :
 

- All field instruments (thermocouples, vibration, flow, pressure and level transmitters, all servo valves and pneumatic actuators) calibration & installations & commissioning & loop check with control system.
- Review all submittals from the contractors and the subcontractors.
- Monitor daily installation progress and check all activities at site according to engineering drawings.

- Check all received materials at site to ensure their correct manufacture, model and type.
- Prepare and keep the documentation of the daily progress report.
- Calibration of all field instruments at labour before installation, for example:
  - Field Transmitters (Siemens & ABB).
  - Temperature sensors (thermocouples and RTDs) calibration check.
  - Vibration monitor systems (Bentley Nevada 3500).
  - Actuators (electrical (Auma), pneumatic (Valve)).
- All instruments installations, commissioning & loop check with Symphony Harmony Infi90 (ABB) control system.
- Standalone systems function check and interface with Symphony Harmony Infi90 (ABB) Control system:
  - BYPASS SYSTEM WITH Siemens STEP7300 PLC.
  - DEBRIS FILTER & TUBE CLEANING with control logix Allen Bradley PLC logix1400.
  - 3500 Bentley Nevada vibration system.
  - Check OPC Interface system between:
    - Symphony Harmony Infi90 (ABB) & DCS CENTUM VP.
    - Symphony Harmony Infi90 (ABB) & 3500 Bentley Nevada vibration system.
  - Cornerstone work as asset management system.
- Control system - Symphony Harmony Infi90 (ABB) proper function, sequence and logic test.

**Dates** : From Mar. 2009 till Jun. 2013

**Employer** : Cairo Electricity Production Company

**Project** : Cairo West Project (2x350MW) oil/gas fired Steam Power Station)

**Job titles** : I&C Engineer / DCS Engineer of YOKOGAWA DCS (CENTUM CS 3000) for BOP and 2 boilers control system

**Job Description** :

- Study boilers and DCS contracts.
- Review all submittals from the contractors and the subcontractors.
- Monitor daily installation progress and check all activities at site according to engineering drawings.
- Check all received materials at site to ensure their correct manufacture, model and type.
- Prepare and keep the documentation of the daily progress report.
- Calibration of all field instruments at labour before installation, for example:
  - Field Transmitters (Siemens & Yokogawa).
  - Temperature sensors (thermocouples and RTDs) calibration check.
  - Vibration monitor systems (Bentley Nevada 3500).
  - Actuators (electrical (Auma), pneumatic (Nippon fisher)).
- All instruments installations, commissioning & loop check with YOKOGAWA DCS.
- From Jan. 2011 till Jun. 2013: I&C Maintenance Engineer the in same project:
  - Field Instruments, control loops, DCS system (Yokogawa) and BMS system maintenance.
  - Prepare documentation for predictive maintenance plan and schedule.

- Work at warranty overhaul for both units.