

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 15 years experience working in I&C field at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 10/11/1985  
Gender : Male  
Marital Status : Married  
Residence : Menoufia

## **EDUCATION**

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2007

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : DCS Yokogawa Middle East Centrum CS3000 (Maintenance & Engineering).
- : PLC Siemens (ST7-300 & ST7-400) Microcontroller.
- : Course in the operation and maintenance of Power Plants in Shoubra El-Kheima Power Plant (Bechtel course) (from Jan. till Mar. 2009).
- : Training course certificate: Attended and successfully completed in all field instruments such as:
  - Yokogawa Transmitter (pressure - level - flow).
  - Cella pressure switch.
  - Vega Flex level transmitter.
  - ABB transmitters (pressure - level - flow) & DELTA CONTROL temperature transmitter.
  - Endress+Hauser Ultrasonic level transmitter.
- : Bentley Nevada training courses in 3500 operation and maintenance.

# CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2022 till now  
**Employer** : Doosan Heavy Industries & Construction  
**Job Description** :

- I&C Engineer for SHOAIBA POWER PLANT STAGE #2 - unit 6 turbine overhaul maintenance for Alstom 397MW condensing turbine, tandem compound double flow:
  - Responsible for instrument dismantle and calibration and assembly for turbine and generator area as per schedule.
  - Make fact finding reports and calibration sheets and daily reports. Also prepare request for inspection reports.
  - Prepare the spare parts required for all instruments and control panels.
  - Make valve calibration after mechanical work. Check all vibration and temperature reading in HMI for DCS of turbine and boiler.
  - Prepare final report for I&C department as per scoop of work.
- I&C Engineer for YANBU 1 unit 5 steam turbine and boiler overhaul maintenance for DOOSAN 250MW:
  - Responsible for instrument dismantle and calibration and assembly for turbine and generator and boiler area as per schedule.
  - Make fact finding reports and calibration sheets and daily reports. Also prepare request for inspection reports.
  - Prepare the spare parts required for all instruments and control panels.
  - Make valve calibration after mechanical work. Check all vibration and temperature reading in HMI for DCS of turbine and boiler.
  - Prepare final report for I&C department as per scoop of work.

**Dates** : From Sep. 2020 till Sep. 2022  
**Employer** : AC Boilers  
**Project** : ASSIUT Power Plant - 1 Unit 650MW supercritical boiler  
**Job title** : Site Commissioning E&I Engineer  
**Job Description** :

- Responsible for commissioning of DESP (dry electrostatic precipitator) & ASH handling system for all equipment's such as motors, fans, transformers, vacuum blower's, transmitters and PLC (Allen Bradley & Siemens ST7-400).
- Also make commissioning of boiler equipment's like AUMA motorize valve, control dampers, pneumatic valves, control valves, burners, heat tracing system and fire fitting system.
- Boiler logic function test from YOKOGAWA CENTUM CS3000 DCS.
- Make update logic for ash handling system and modify it as per site condition.
- Also modify, review and update all drawings and logic for DESP system.
- Also make modification for communication between ASH & DESP systems and main DCS for boiler.

**Dates** : From Sep. 2018 till Aug. 2020  
**Employer** : [EGYPTROL](http://www.egyptrol.com), AC Boilers Subcontractor  
**Project** : South Helwan Site – 3 Units 650MW  
**Job title** : Commissioning I&C Engineer

**Job Description** : 

- Calibrate and install all instruments for turbine system (pressure transmitters, gauges, temperature transmitters, flows, vibration sensors).
- Control valves calibration and hot loop check from field to turbine DCS.
- Logic review and function check with consultant team for turbine equipment's.
- Weekly report for (I&C) progress for our management.

**Dates** : From Jul. 2016 till Aug. 2018

**Project** : West Damietta Combined Cycle 750MW Power Plant (GE Turbine & DOOSAN HRSG)

**Job title** : Site Team Leader Construction & Commissioning I&C Engineer

**Job Description** : 

- Calibrate and install all (HRSG and STEAM TURBINE) instruments and control valves, follow up installation of instruments, hot loop check, motorized and pneumatic valves calibration, tube cleaning system commissioning and start-up.
- Follow up flushing of lubrication oil for turbine system.

**Dates** : From Jul. 2010 till Jul. 2016

**Project** : Cairo West Power Plant units 7 & 8

**Job title** : DCS Specialist for DIASYS Netmation which control MITSUBISHI turbine

**Job Description** : 

- Calibrate and install all instruments for steam turbine, MITSUBISHI control cabinets' power on and start-up.
- Logic review and equipment's function test.
- Turbine overall maintenance for unit no 7 after one-year work instrumentation dismantle and re-installation.

**Dates** : From Jul. 2008 till Jul. 2010

**Job Description** : Attended start-up and commissioning of Cairo West Project Electricity Production two units of steam cycle (Mitsubishi turbine and Hitachi boiler 350MW).

**Further experiences** : Worked as Trainer Engineer in Cairo North Training Center for 1 month (SCADA & DCS control system used in Power Plant).

**Field of experience** : 

- About 15 years experience in commissioning and start-up, as DCS Specialist, review and update drawings, update P&ID drawings, make as built drawings for E&I department, maintenance and construction of E&I. Worked in different projects in power plants, oil and gas stations like (Shoaiba SEC Power Plant stage #2 overhaul maintenance unit 06, YANBU 1 unit 5 steam turbine and boiler overhaul maintenance, Cairo West Project units 7 & 8 700MW thermal unit, West Damietta Combined Cycle unit 1500MW, South Helwan 3 supercritical units 2000MW, Assiut supercritical unit 650MW and Zohr Gas Field).
- Can lead team of Senior Engineers and Technicians to install the instruments and control valves and make commission for it by the following steps:
  - Calculate the needed materials, tools and manpower.
  - Documentation checking (Engineering document, mechanical catalogue & Package units).
  - Reading of automation control & process operation in (P&ID)

- pipeline & instrument diagrams.
- Instrument installing up to HOOK-UP Drawing.
- Cable termination on trays & junction boxes according to wiring diagrams (from field to DCS).
- Computers, Digitals control equipment & Distributed control systems (DCS).
- Programmable logic controllers (PLC).
- Machine monitoring system (MMS) of Bentley Nevada Proximity Transducer System 3300 / 3500 series.
- Transmitters calibration as data sheets.
- Troubleshooting.
- Field & workshop knowledge:
  - Calibration of pressure & temperature gauges & switches on deadweight tester & metal blocks temperature calibrator (Heater)...
  - Calibration of pressure, flow, temperature & level transmitters (Electronics & Smart) (Fisher - Rosemount, Foxboro, Yokogawa, Endress+Hauser) on smart field communicator, Druck hydraulic calibrator, electronic source & calibrator and decade resistance box, Highway addressable remote transducer (hart) communicator model 275, 375 & ABB hart communicator.
  - Calibration of control valves, on/off valves (ball valves).
  - Calibration of (I/P) current to pressure converter (MASONEILAN) & (ABB).
  - Testing of (MOV) motor operating valve by (ROTORK), (BIFFI) & (AUMA).