

Holds a B. Sc. in Electronics & Communication Engineering and has over 8 years of hands-on experience working as I&C Engineer in oil and gas plants and refinery sector in the field of Engineering, Inspection, Pre-Commissioning, Commissioning, Operation, Maintenance and Troubleshooting of field Instrumentation, DCS and PLC systems.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 10/09/1985
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Alexandria Higher Institute of Engineering and Technology (AIET), 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Course in programmable logic controller PLC at ENPI Comp.
- : Course in Cisco Certified Network Associate (CCNA) at New Horizons (training at Switching, Routers CISCO & TCP/IP) (Feb. 2007).
- : Certification & Course in International Computer Driving License (ICDL) (Aug. 2007).
- : Certification & Course in Mobile Communication (Jul. 2007):
 - Global System for Mobile communication (GSM).
 - General Packet Radio Service (GPRS).
 - Enhanced Data Rates for GSM Evolution (EDGE).
- : Training in National Refining and Petrochemical (ANRPC) (Jul. 2004).
- : Training in Petrochemical Egyptian Comp. (Aug. 2004).
- : Training in Sidi Krir Petrochemical Comp. (SIDPEC) (Jul. 2005).
- : Training in El Amria for Petrol Comp. (Jul. 2006).
- : Training in Egyptian Natural Gas Comp. (GASCO) (Aug. 2006).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2009 till now
- Employer** : Ameriya Petroleum Refining Company
- Projects** :
- Dewaxing and Deoiling Unit (Two LMF Ammonia Reciprocating Compressors with two plc Siemens (simatic s7 – 400 & 300)), Senior Instrument Commissioning Engineer:
 - Pre-Commissioning, Commissioning Instrumentation and Start-up Operations support.
 - Review and preparing inst. schematic wiring and loop control diagram, wiring interconnection for plc.
 - Review all P&I diagram (process gas and inst., lube oil system, cooling water system).
 - Review sequence and logic diagram.
 - Review cause & effect matrix.
 - Review of Instrument I/O Lists.
 - Preparing Instrument Index and junction box layout.
 - Revision and received the packing list of two compressor from vendor.
 - Involved in SAT for two PLC of compressor.
 - Supervision of Inst. Installation, Inst cable laying, conduit installation, JB installation, Hook up installation and inspection.
 - Installation/Calibration/stroke testing of control valves using HART communicator (PV, TV, LV, FV), shutdown valves (SDV), functional testing of solenoid valves (XV) in compressor.
 - Loop check / line check of all transmitters from field to JB and JB to Marshalling Cabinets.
 - Loop check / line check for interconnection between UCP, LVSR and MCC.
 - Termination and I/O testing for all loops.
 - Installation /Calibration/validation of PT, PDT (ABB) and FT (electromagnetic flow meters KROHNE).
 - Installation /Calibration/validation of thermo elements TE, RTD & TT (ABB & Rosemount).
 - Installation/validation of Wireless Temp Sensor System (Kongsberg).
 - Hook up / termination / revision and punch list works documentation.
 - Calibration, Commissioning and loop checking for more than 400 loops for each compressor.
 - Installation, calibration & Commissioning of Bentley Nevada measuring system series 3500 (Acceleration, Velocity, key phasor, Vibration ...).
 - Loop checks, Troubleshooting, Loop/System Fail testing Commissioning and Maintenance in Fire & Gas and Safety Instrumented Systems, Emergency Shutdown and Process Instrumented Systems.
 - Lube Oil Hydro Finishing and Special Oil Unit (Emerson Delta V DCS), Instrument Commissioning Engineer:
 - Pre-Commissioning, Commissioning Instrumentation and Start-up Operations support.
 - Work in Technical Specifications for new DCS system (Emerson).

- Preparation of Instrument Index.
- Preparation of Instrument I/O Lists
- Generation of Loop diagrams
- Generation of Wiring diagrams for devices
- Preparation of Instrument Specification data Sheet.
- Supervision of Inst. Installation, Inst cable laying, conduit installation, JB installation, Hook up installation and inspection.
- Involved in FAT and SAT for DCS system.
- Loop check / line check of all transmitters from field to JB and JB to Marshalling Cabinets.
- Termination and I/O testing for all loops.
- Software application of Emerson delta v dcs (delta v explorer, configuration, control studio).
- Revision graphics and logic.
- Aromatic extraction by phenol unit (new site Aromatic extraction by phenol unit), Instrument Engineer:
 - Preparation of Instrument Index for unit.
 - Preparation of Instrument I/O Lists.
 - Generation of Loop diagrams.
 - Generation of Wiring diagrams for devices.
 - Preparation of Instrument Specification data Sheet.
 - Loop check / line check of all transmitters from field to JB and JB to Marshalling Cabinets.
 - Loop check / line check for interconnection between UCP, LVSR and MCC.
 - Termination and I/O testing for all loops.
 - Supervision of Inst. Installation, Inst cable laying, conduit installation, JB installation, Hook up installation and inspection.

Job title : Senior Instrumentation & Digital Control System Engineer

- Job Description** :
- Scope of work:
 - Work in lubricating oil complex which consist of sex plants.
 - Leading a team consist of ten technicians.
 - Installation, calibration and loop checking of the field instruments PT, LT, TT, FT (FoxBoro, Emerson Rosemount, ABB, Bentley Nevada, Honeywell, Yokogawa, Fisher, Masoneilan Dreeser).
 - Maintenance and calibration of the control valves (Foxboro, Flowserv, V altek, Masoneilan, fisher, Samson.....) with pneumatic and smart positioner.
 - FOXBORO I/A series DCS system engineering.
 - Excellent capability in handling field communicators (HART 375/475 and process calibrator).
 - Designing, Implementing and Commissioning of new control loops as per site requirements.
 - Supervision of Inst. Installation, Inst cable laying, conduit installation, JB installation, Hook up installation, inspection, calibration, loop checking, site acceptance test, punch list clearance system sign off, site modification as required at site condition.
 - Review of control philosophy, P&I diagrams, cause & effect diagrams, instruments list, flow chart.
 - Familiar with engineering standards ISA, ASTM, ANSI, ATEX.
 - Preparation of Instrument Specification data Sheet.
 - Technical Support for the instrumentation team.

- Experienced in the field instruments and control systems procurement activities.
- Planning required upgradation for instruments to achieve production quality and cost minimizing.
- Spares balance investigation and inventory control for all instruments' spare parts.
- Familiar with telecommunication design aspects (e.g CCTV, Access control, wireless technology).
- Responsibilities:
 - FOXBORO I/A series DCS system engineering.
 - Pre-commissioning and commissioning for control systems in Oil & Gas plants.
 - All maintenance activities for FOXBORO I/A Series DCS System.
 - DCS system Monitor and Fault Analysis.
 - DCS system Backups.
 - Configurations required in the system (Control Loops, Alarms, trends, Process Displays, Historian, Process Summary, Reports).
 - Preparation and verification of database from P&ID's.
 - Responsible for more than 20 compressor Item ShutDown:
 - Designed, implemented and commissioned automatic local control systems for 8 compressors.
 - Installation, Commissioning, Inspection, Maintenance & calibration for Instrumentation in compressors (Pressure Switch, Level Switch, Temp Switch, Flow Switch).
 - Installation, Commissioning, Inspection, Maintenance & calibration for Anti-surge control for centrifugal compressor (Delval Stork).
 - Maintenance, calibration & troubleshooting of Bentley Nevada measuring system series 3300 (Acceleration, Velocity, key phasor, Vibration ...) for Reciprocating and Centrifugal compressor.
 - Maintenance, calibration & troubleshooting of Bentley Nevada dual temperature monitoring system (RTD).
 - Responsible for 5 Continuous Oil-Dewaxing Horizontal Drum Type Rotary vacuum Filter (DORR- OLIVER EIMCO) which contains (local classic control system, speed variation with Inductive Proximity sensor, No Flow Switch for lub line alert, Limit switch's, over torque switch, LT, PT, FT, TT, PS and Control valves Fisher with smart positioner series 6200).
 - Very good experience in I/A SERIES FOXBORO (LT, PT, FT, control valves with pneumatic positioned SRP 981) Installation, commissioning and Maintenance.
 - Attend the commissioning, start-up of the plant and apply the loop test for most of The plant control system
 - Installation, Commissioning, Inspection, Maintenance & trouble shooting of all field Instrumentation and systems
 - Installation, Maintenance & trouble shooting of SPM Vibration monitor system for Pumps
 - Responsible for Maintenance & troubleshooting of ESD for fire & gas systems.
 - Maintenance and calibration of different analyzers (fuel gas

analyzer model FGA 300H, H₂S, O₂).

- Specialized Area:
 - Field instrumentation and control system of Reactor, Boilers, Furnace, Anti-surge protection system of Compressors, Heaters, Storage system, vacuum system, Distillation Columns, etc.

Dates : From Jan. 2008 till Mar. 2009
Employer : Egyptian Army
Project : Military Service