

100735-ICX-4CDMOS-E-1992

Management I&C Engineer and F&G

Holds a B. Sc. in Electromechanical Power Engineering and a Diploma in Automatic Control. Has about 30 years of solid experience in management instrumentation, automation and F&G for feed, detail engineering, procurement, commissioning & start-up for all I&C activities, including integrated software and hardware on sequence control in DCS, PLC, SCADA, ESD, BMS system.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/01/1970
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Electromechanical Power Engineering, Zagazig University, 1992
: Diploma study in Automatic Control, Cairo University, 2010

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2020 till now
Employer : Petrojet
Job title : Management I&C Engineer and F&G
Job Description :

- Refinery (Crude Distillation Unit CDU - 4 - Suez:
 - Attend in P&ID.
 - Prepare instrument index, control valve data sheet.
 - Prepare fiber optic specification.
 - Prepare F&G specification.
 - Prepare F&G layout.
 - Prepare F&G data sheet, fire alarm data sheet.
- Abu Sannan-Humra 12" pipeline - 170 km:
 - Attend in P&ID.

- Prepare DCADA specification (including system control with PMS, RTTM, RTU).
- Leak detection system specification.
- Prepare fiber optic specification.
- Oil meter skid specification.
- Field instrument data sheet.
- Evaluate for tenders of metering skid and field instruments.
- Attend in specification for air compressor unit, chemical skid, pumping skid.

Dates : From May 2018 till Feb. 2020
Employer : Egyptian Refining Co. (ERC)
Project : Refinery (ERC Hydro-Cracker Plant)
Job title : Lead I&C Commissioning Engineer
Job Description :

- Review engineering documents, according to standard and recommendations taking in consecration operation and determine the discrepancies.
- Working on HMI Operator Interface (MCR) of Honeywell Distributed Control System (DCS), Redundant Honeywell EPKS (Experion PKS R400), ESD system (SILworX), F&G system (SILworX) & Burner Management System (BMS).
- Working on loop test for all field instruments on DCS and PLC system HMI from main control room (MCR) and substation control room.
- Function test for vibration system Pentel Nevada (vibration transmitters, axial displacement, accelerometer, kievasor, temperature).
- Function test for F&G detection system (FGD, TGD, TUG, FUG, UK).

Dates : From Feb. 2017 till Feb. 2018
Employer : GS E&C
Project : Refinery (ERC Hydro-Cracker Plant)
Job title : Lead I&C Commissioning Engineer
Job Description :

- Review engineering documents, according to standard and recommendations taking in consecration operation and determine the discrepancies.
- Supervising construction work in accordance with design documents and installation recommendations, taking into consecration operation and maintenance accessibility. In addition to determining the discrepancies and issuing punch list for any missing or error in construction for re-correction:
 - All instrument types.
 - Junction boxes.
 - Local control panels.
 - Cabling installation & termination.
- Preparing function test folders after reviewing engineering documents and determining test procedures.
- Working on function test for control loop (simple, cascade, split range, derivative, complex, etc.) and package control system of all refinery units including PLC control.
- Preparing cold and hot function test for the units function test and start-up, the work includes utilities & production units and F&G detection

system, corporate with client and lead team engineer.

- Preparing work permits according safety procedures before starting for different work types on site (cold work, hot work, confined work, etc.).
- Working on HMI Operator Interface (MCR) of Honeywell Distributed Control System (DCS), Redundant Honeywell EPKS (Experion PKS R400), ESD system (SILworX), F&G system (SILworX) & Burner Management System (BMS).
- Preparing loop tests for all field instruments on DCS and PLC system HMI from main control room (MCR) and substation control room with the client (ERC) the loop test team on site.

Dates : From Jan. 2017 till Jun. 2017 (part time)
Employer : ODE Doris Group Company, Cairo, Egypt
Project : OFFSHORE PRINOS AREA FIELD DEVELOPMENT PROJECT - Lamda LOCATION
Job title : Lead I&C Engineer
Job Description : Reviewing all London`s I&C engineering documents, preparing data sheet for instrument and F&G detection systems, in addition to preparing the alarm & trip lists for the project.

Dates : From Apr. 2009 till Jan. 2017
Employer : WorleyParsons, Cairo - Egypt
Job title : Lead I&C Engineer
Job Description :

- SOPC – Coker complex modernization: Carried out I&C Conceptual study for the Refinery. This included undergoing site visit and write-up of reports, inspection for instrument and control systems on site, coordinating with the client and project lead team engineers. In addition to studying of existing P&IDs and shutdown systems and carrying out all updates accordingly. Preparing, reviewing and approving all I&C deliverables for the project, including I/O lists and cause & effect project deliverables.
- North Sadwan Project: Designed SCADA control complete with required instrumentation and worked on P&IDs. Reviewed and approved project I/O list, I&C data sheets, specifications, hook-up drawings, WHCP specification and cable list.
- Over pressure protection - Petro Alam: Designed project controls complete with required instrumentation input for P&IDs, prepared data sheets and I/O list.
- Engineering for Multi-well tank battery for Petrodara West Gharib Co.: Provided input for P&ID, prepared data sheets, I/O list, cable list, instrument layouts, specification, hook-up drawings and cause & effect. Attended HAZOP session and carried out instrumentation MRQs and TBE.
- Offshore - MOPU / FPSO - Muzhll (Engineering - Procurement - VDR): Provided input for BOD, P&IDs. Prepared, checked and approved specification, I&C / F&G data sheets, instrument and F&G layouts, I/O lists, loop diagrams, hook-up drawings, wiring diagrams, WHCP and F&G specifications. Underwent instrumentation, control and F&G TBES and vendor print reviews.
- Fertilizers and Chemicals Industries - Abu Qir (Condensate, Re-boiler & Flash Drum): Provided input for P&IDs, prepared instrument data

sheets, F&G data sheets, loop diagrams, wiring diagrams and cable routing layouts.

- Fertilizers and Chemicals Industries - Abu Qir (Flare and blowdown study): Provided input for P&IDs, prepared data sheets, I/O list, specifications and MRQs.
- Onshore Tank Oil Engineering Project - Petrogulf: Provided input for BOD and P&IDs. Prepared data sheets, specification, I/O list, F&G data sheets, F&G specification, loop diagrams, wiring diagrams, cause & effect, hook-up drawings and integrated wiring, drawings in coordination with existing systems.
- Propane Tank Project - Khalda: Provided input for BOD, P&IDs. Prepare data sheets, hook-up drawings, MRQs and TBEs.
- RWE Pipeline Project: Provided input for BOD and P&IDs. Prepared I/O list, specification, data sheets, hook-up drawings and cause & effect. Attend HAZOP session. Carried out sill study, control system specification, telecommunication system specification, instrument layouts, telecommunication layouts, tie-in point lists and drawings and fiber optic rout drawings.
- PetroDara-Hana West Multi Well Tank (Procurement): Carried out I&C TBEs and vendor print reviews.
- Power Plant - El Amel Petroleum Co.: Prepared data sheets, hook-up drawings, site report and I/O list.
- Fire & Gas detection system - Suco Petroleum Co.: Reviewed HSE philosophy. Prepared F&G specification, cause & effect, F&G data sheets, I/O list, hook-up drawings, loop diagrams, wiring diagrams and MRQs.

Dates : From Feb. 2004 till Mar. 2009
Employer : EMC Oil Company, Egypt
Job title : Superior for construction & engineering
Job Description :

- Worked on the following projects:
 - DCS control system integration with PLC control for packages complete with required instrumentation deliverables.
 - Power Station - Salam field.
 - Oil tank plants tie-in control for Salam field.
 - Gas pressure reducing and metering stations with filtration.
 - Water injection plants for Salam & Hayat.
- Engineering & site work responsibilities:
 - Study, analyzing and discussing the required products and work sequence with customer.
 - Determine the suppliers for the products and contacting them to determine the cost material.
 - Determine the required team from Engineers and workers, then planning the project schedule.
 - Preparing P&I and installation drawing for projects according to site services and required from customer.
 - Undergoing Installation, commissioning and start-up.
 - Discuss with customer for future project scope of work.

Dates : From Feb. 1994 till Jan. 2004
Employer : ACETO – Schlumberger

- Job title** : Control & Installation Engineer
- Job Description** : Prepared the required deliverables for valves, control valves (electric & pneumatic), instrumentations, control electric panels, pipes & fittings, cables, etc. as required for assigned projects and carried out installation, supervision and maintenance for the following:
- Oil & Gas Stations.
 - Pressure Reduction Station, Filtration and Metering (PRS).
 - Re-habitation and development of thermal power station.
 - Steam Power station and all types of instrument, control loop, control valves.
 - DCS control & PLC control complete with required instrumentation.
 - Turbine (steam) for control speed and monitoring vibrations and displacement systems.
 - Booster pumps and feeding pumps station by complete valves and instrumentations.
 - Pumps and Air compressors units.
 - Pressure reducing and de-superheating station for steam.
 - Metering Stations.
- Dates** : From 1992 till Feb. 1994
- Employer** : GACO Company
- Projects** :
- Gupco (air compressor system package)
 - Kafr El-Dawar Power Station (steam turbine units)
 - Khalda (Slug Catcher system)
- Job title** : Installation & Maintenance Engineer
- Job Description** : Installation & Maintenance for:
- Oil and natural gas.
 - Control valves for Power Plants.
 - Boilers, heat exchanger.
- Field of experience** :
- Prepare and review engineering specifications, drawings, data sheets, I/O list, MTO, MRQ and perform calculations in support of engineering activities.
 - Development of P&IDs, control schematics.
 - Participation in HAZOP and SIL studies.
 - Review manufacturer information to assure compliance with specifications.
 - Prepare reports, studies and calculations.
 - Worked on numerous in Oil & Gas processing facilities, including but not limited to:
 - Onshore and Offshore Projects.
 - Refinery Plants.
 - Petrochemicals.
 - Pipelines Networks.
 - Metering Stations.
 - FPSO - Offshore.
 - Utility packages as air compressor, turbine units, nitrogen units.
 - Steam & Thermal Power Plants.
 - PRS, Filtering, Metering Stations.
 - Summary:

- Engineering:
 - ❖ Worley Parsons (2009 - Jan. 2017).
 - ❖ ODE Doris Group Co. (one project).
 - ❖ Petrojet (Mar. 2020 - now).
- Commissioning & start-up:
 - ❖ GS - Refinery (Feb. 2017 - May 2018).
 - ❖ ERC Refinery Co. (May 2018 - Feb. 2020).
- Construcion & Engineering:
 - ❖ EMC Oil Co. (2004 - 2009).
 - ❖ ACETO - Schlumberger (1994 - 2004).
- Installation & Maintenance:
 - ❖ GACO (1992 - 1994).