

104977-ICX-4CMOS-E-2007
Senior Instrumentations Engineer

Holds a B. Sc. in Communication & Electronics Engineering and has about 10 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/11/1984
Gender : Male
Marital Status : Married
Residence : Beni Suef

EDUCATION

: B. Sc. in Communication & Electronics Engineering, Al-Azhar University, 2007

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Excel, Access, Power Point), Internet
: Industrial Control Software

TRAINING COURSES AND CERTIFICATIONS

: Certified in the engineering and maintenance training for DCS System (Experion PKS C300) from loops automation L.L.C. - Dubai.
: Certified on FSC System from loops automation L.L.C. - Dubai.
: Certified in maintenance and troubleshooting of TDC 3000 DCS System from Honeywell Egypt.
: Certified in the AB compact logic & control logic family.
: Certified in operation & maintenance of Radial compressor RBZ35-4 with aux. system (SAMEX5-8).
: Certified in operation & maintenance of direct field heaters from born Canada Company.
: Certified in operation & maintenance of turbo expander from Florence Learning Center.
: Certified in operation & maintenance of reciprocating compressor from Mitsui engineering shipbuilding.
: Certified on GE system (90-30 PLC, 90-70 PLC, RX3i PLC, HMI).

: Certified on Triconics PLC system.

CHRONOLOGICAL EXPERIENCE RECORD

- Employer** : Khalda Petroleum Company
It is a Joint - Venture Company between Egyptian General Petroleum Co-operation (EGPC), and Apache Company. It has an international reputation in the oil and gas production world wide. Main office is located in the capital of the A.R.E., Cairo, with three gas production and processing plants producing (750 MMSCFD), and three oil production plants (150,000 BOPD) at different locations in the western desert of Egypt.
- Job title** : Senior Instrumentations Engineer
- Job Description** :
- My responsibility includes instrumentations and control systems "maintenance, planning, and upgrading". Particular, responsibility for supervision, commissioning, start-up and troubleshooting. This includes "variety of electronic, microprocessor based control & recording instrumentations and digital control systems".
 - Carry out technical and administrative maintenance tasks for all instrumentations and related control systems in oil and gas production plants. Moreover, commissioning and start-up for control panels for small plants.
 - Hereunder is a summary for them:
 - Good experience in maintenance and repair of all process control and measuring instruments and systems Utility Plants, Process Control Room and remote area facilities and ensures proper functioning of such instruments and system.
 - Acquainted with Modbus protocol.
 - Acquainted with RS-232, RS-422, RS-485, network topology.
 - Acquainted with SCADA applications software like cimplicity plant edition.
 - Acquainted with DCS applications software like TDC 3000 & Experion PKS C300.
 - Assist in trouble-shooting, fault diagnosis and solving day to day problems as they arise on supervisory/control/instrumentation equipment in 6 operating areas, and provide advice as requested.
 - Acquainted with SCADA system applied for monitoring and control of remote gas wells.
 - Head office activities like coordinating field requirements, materials, and vendor support.
 - Responsible for the development of preventive and routine maintenance schedules, according to MAXIMO computerized maintenance planning program ensuring that all maintenance is carried out during planned shutdowns and that all standby units are fully operational.
 - Review inventories of spare parts and materials at warehouse to ensure availability for required work programs, issue requisitions for stock materials and prepares requisitions for purchase items according to the Company Procedures.
 - Carry out design calculations as a tool for checks by utilizing computer software like "control valve sizing, orifice sizing, safety relief valves sizing".
 - Conduct periodical surveys on Instrumentation & Control Systems,

- ESD and F&G.
- Experienced in developing & reviewing and technically accepting P&ID's, instrument loop diagrams, instrument index and database, instrument specification sheets, cable routing diagrams, hook up diagrams, plot plan layout drawings, cause and effect diagrams and equipment specifications for bid tender documents, bid evaluations and other.
- Review and evaluate the offers and terms of new contracts for new packages and projects.
- Prepare the relative punch lists / commissioning and hand over for new projects.
- Read and interpret Electrical and Instrumentation loop drawings.
- Fully acquainted with troubleshooting of different generations of programmable logic controllers" PLC", and various types of PLC's such as:
 - GE90-30, GE90-70, RX3I, PACK 8000.
 - ALLEN BRADLEY Family.
 - HONEYWELL FSC "FAIL SAFE CONTROL SYSTEM".
 - AMOT.
 - HONEYWELL TDC 3000.
 - SCHNEIDER PLC.
 - SEMINESE S7.
 - HMATRIX.
 - HONEYWELL EXPERION PKS.
- Verify valves and orifices sizing in relation to the current working conditions using software calculations programs.
- Maintain different local mounted transmitters (analog – electronic – smart):
 - Level, pressure, flow, temperature transmitters:
 - Foxboro.
 - Magnetrol.
 - Fisher.
 - Yokogawa.
 - Different types of Flow meters, like orifice plates, positive displacement, turbine, vortex, ultrasonic, Rota meters, Mass flow meters techniques.
- Following is a list of equipment and systems where substantial personal experience was gained like:
 - Control valves and their actuators (pneumatic, electric, hydraulic, electro pneumatic, electro hydraulic).
 - Safety relief valves (spring loaded, piston loaded, pilot operated).
 - SLDC "single loop digital controller" controllers.
 - Positioners, booster relays.
 - Field and control room instrumentation systems.
 - Instrument air compressors:
 - Atlas Copco.
 - Gardner Denver.
 - Fiac.
 - Air dryers:
 - Fiac.
 - Atlas Copco.
 - Vibration systems, and different sensors alignment "BENTLEY

NEVADA series TDM 3300" (axial – radial – acceleration).

- Fire and Gas systems Experience:
 - Maintain and troubleshoot different gas sensors systems like:
 - Catalytic bead gas sensors.
 - Electrochemical.
 - IR gas sensors.
 - Semiconductor gas sensor.
 - Maintain and troubleshoot different flame and fire sensors systems like:
 - Ionization smoke detector.
 - UV flame detector.
 - IR flame detector.
 - UV/IR flame detectors.
 - Triple IR flame detectors.
 - Experienced with DELPHAIN, HONEYWELL, BASCO, PREMIER panels & relevant accessories and actuation systems like air horn, beacons, sirens, bells and motor driven sirens. In addition to Hallon systems, foam systems and fire fighting pumps.
- Process systems experience in:
 - Oil/Gas/Water separation.
 - Dehydration & Dew pointing and Sweetening gas.
 - Water flood injection pumps (reciprocating, centrifugal).
 - Automatic flare ignition systems.
 - Fired electrostatic heater treaters.
 - Chemical injection.
 - Gas sweetening.
 - Chilling and dew pointing.
 - Gas treatment and processing.
 - Reverse Osmosis units & water distillation.
 - Instrument & utilities nitrogen generation.

- Further experiences :**
- Field Engineer in the commissioning of salam gas tr (3).
 - System Engineer in the commissioning of train (4).
 - System Engineer for commissioning and start-up of Hydra facility which include PACK 8000 system and Honeywell x3300 fire fighting System.