

Holds B. Sc. and M. Sc. in Communication & Electronics Engineering and has about 17 years hands-on experience working in I&C maintenance and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/09/1982
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Communication & Electronics Engineering, Cairo University, 2004
: M. Sc. in Communication & Electronics Engineering, Al-Azhar University, 2010

LANGUAGES

Arabic : Native Language
English : Fluent
French : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Function Safety Engineer (TUV Rheinland) (Dec. 2016).
: TPS-5739 (GUS/LCN/UCN/HPM Maintenance), Honeywell (Apr./May 2012).
: ControlLogix fundamentals, maintenance and troubleshooting, Rockwell Automation (Jan./Feb. 2012).
: Allen Bradley communication networks and panel view, Rockwell Automation (Feb. 2012).
: GE Fanuc, Series 90-30 and 90-70 PLC's, Target Engineering (Dec. 2011).
: Proficy HMI/SCADA CIMPLICITY, Target Engineering (Jan. 2012).
: New approaches in DCS and SCADA (Control strategies, feed forward, feedback, cascade....etc.), OIL & GAS SKILLS (OGS) (Mar. 2014).
: Process control valve engineering (sizing, selecting and troubleshooting), OIL & GAS SKILLS (OGS) (Apr. 2013).

- : Industrial networks and data communication systems, OIL & GAS SKILLS (OGS) (Mar. 2013).
- : Installing Devices in Hazard Area, OIL & GAS SKILLS (OGS) (Dec. 2013).
- : Safety Instrumented System (SIS), OIL & GAS SKILLS (OGS) (Dec. 2014).
- : Process safety analysis, HAZOP studies, SIL determination and verification, OIL & GAS SKILLS (OGS) (Jan. 2015).
- : English conversation courses in AIC.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2009 till now
- Employer** : Khalda - Apache Petroleum Corp.
- Job title** : I&C Maintenance Engineer
- Job Description** :
- Commissioning:
 - Participating in FEED, detailed design, construction, commissioning and handover of the new gas separation facilities; testing field instruments, performing loop checks, performing control loop tuning, reviewing cause and effect with the DCS (Honeywell Exprion) logic, performing function tests and preparing punch lists.
 - Familiar with safety studies (e.g. HAZOP, SIL and Design review).
 - Familiar with international standards; ISA, API, IEC, ASME, etc.
 - Participating also in commissioning for over than 30 new gas wells; including FAT, SAT and preparing the well head control panels (WHCPs) and the well head communication systems (Fiber optic, VHF and Wimax) connecting the gas wells to DCS.
 - Control systems (DCS, PLC and SCADA):
 - Performing DCS engineering tasks; building points, graphics and connecting third parties for various DCS systems which includes but not limited to Honeywell TDC3000, Honeywell EXPERION PKS, HIMA and Honeywell FSC101R shutdown systems.
 - Performing various DCS corrective and periodic maintenance tasks (PMs and CMs) using Maximo maintenance management program.
 - Programming and troubleshooting SCADA Applications (GE Cimplicity, Allen Bradley, SIEMENS).
 - Performing maintenance and program modifications for different PLC's such as GE Fanuc (Series 90/70, 90/30), Allen Bradley (Micrologix1000, SLC500 and Micrologix 5000), Schneider and Alpro PLC systems.
 - Performing maintenance and trouble shooting of metering systems.
 - Field instruments:
 - Ensuring that all instruments works as per the approved procedure and compliance with ISO quality management system.
 - Performing CMs and PMs of instrument maintenance and troubleshooting for all field punmatic and electronic instruments such as transducers, controllers, transmitters, emergency shutdown valves, pressure safety valves (pilot operated, spring operated), control valves and Enraf tank gauging.
 - Performing maintenance of instruments and control of the rotating equipments such as centrifugal compressors (GHH BORSIG),

- Turbo Expanders (Atlas Copco) including anti surge control system (e.g. Turbo log) and Bentley Nevada systems (e.g. model 3300& 3500).
- Carrying out design calculations such as control valve sizing and orifice sizing.
- Maintenance & trouble shooting for Hanover & WPS Nodal LP Injection Compressor with Waukesha Engine and Murphy control panel using ISA graph software.
- Performing maintenance for the plant utility areas which includes but not limited to instrument air compressor package, Air dryer package, nitrogen package and hot oil heaters.
- Fire and gas: Maintenance & trouble shooting for firefighting systems (Water, Foam, CO2, FM-200, Honeywell system 57) and field devices such as gas (open path, point search) detector, flame detector, fire detector, heat detector, smoke detector, fusible loops, VESDA, manual call points, and Annunciation devices (sounders, sirens, beacons, air horns...).
- Gas wells: Maintenance & trouble shooting for wells remote terminal unit (RTU) with its solar cell and communication system which include fiber optic cables, fiber optic modems and VHF modems.
- Solar turbines: Carry out 4000&8000 hour overhauling and performing CMs of solar gas turbines.
- Other maintenance tasks:
 - Investigating plant trips and providing remedial engineering solutions and recommending modifications to improve the performance of field instruments and process control.
 - Ordering new spare parts, reviewing offers, checking stock items and adjusting stock level using Oracle program.
 - Using the MAXIMO version "6.2" and then Oracle/eAM as a computerized maintenance management system (CMMS), updating equipment job plan depending on equipment performance and degree of breakdowns.
- Process systems experience:
 - Oil / Gas / Water Separation.
 - Dehydration & Dew pointing and Sweetening gas.
 - Water flood injection pumps (reciprocating, centrifugal).
 - Automatic flare ignition systems.
 - Fired electrostatic heaters.
 - Chemical injection/ Chilling and dew pointing.
 - Gas treatment and processing.
 - Reverse osmosis units/ water distillation & Nitrogen generation.

Dates : From Aug. 2004 till Jan. 2009

Employer : Upper Egypt Electricity Production Company (UEEPC)

Job title : I&C Maintenance Engineer

Job Description : • SIEMENS 750MW Combined Cycle (EI-Kureimat II):

- Attending training on the operation of Siemens simple cycle (gas turbine) as well as the combined cycle.
- Working in the control room (DCS) or in the field of an assigned

plant area to control/monitor the safe operation and I&C maintenance of the power plant in order to meet the specified production qualities and quantities.

- Taking and analyzing log reading from a variety of gauges and indicators and carrying out regular inspection of the field equipment then reporting and fixing any abnormalities.
- Leading decommissioning and commissioning of equipment for maintenance purpose.
- Was in charge of operation and maintenance for all the project systems which includes but not limited to the transformers, generators, compressor, combustion chamber, gas turbine, steam turbine, condenser, natural gas system, fuel oil system, UPS system and the other auxiliary systems like the pneumatic air, hydraulic oil, service air, instrument air, service water, closed cooling water, Demi water, hydrogen generation system, seal oil system, ball cleaning system, emergency diesel generator system and LV/MV switch gear.
- Studying and modifying the system settings and logic control sheets.
- Configuring and commissioning the third-party interface.
- Working on Ovation Windows Operation, Ovation DCS, the Ovation alarm system, the Ovation process diagrams, the trends display, the ovation point information, the Ovation point review and the Ovation point viewer.
- Experience with the Siemens Power Plant Automation System (SPPA-T3000).
- Experience in Siemens S7 PLC, HMI systems, Data Servers, Networks highways and network interfaces.
- Knowledge and experience with Windows and Linux operating systems.
- Knowledge of network components (Switches, Firewalls and Routers; LAN and WAN).
- Industrial Cyber Security knowledge.
- GE 750MW Combined Cycle (El-Kureimat III):
 - Experience with MARK VI control system.
 - Attending commissioning and start-up; performing continuity tests, calibrations and function tests.