

Holds a B. Sc. in Electronics & Communication Engineering and has over 13 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/07/1981
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Alexandria University, 2003

LANGUAGES

Arabic : Native Language
English : Excellent
German : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Alspa P320 Distributed Control System DCS made by Alstom (from Feb. till Apr. 2005), Alstom Power France.
- : Operation & Maintenance of gas turbine V94.2A 50HZ, Siemens Power Generation (250MW) (Mar./Apr. 2004), Siemens Egypt.
- : Operation & Maintenance of Combined Cycle Power Station (Feb./Mar. 2004), WDEPC Egypt.
- : ELOP II engineer + project specific training (ESD SYSTEM) (Jul./Aug. 2008), HIMA CENTER in Germany.
- : FAT and Training Voith DTE speed controller held in Germany (2014) for 10 days.
- : Project specific training (ESD SYSTEM) held in Germany (2008) for 5 days.
- : HR training held in Abu Qir Fertilizers Training Center (2011) for 5 days.
- : SERVER ENGINEERING AND CONFIGURATION EXP02R300 held in Abu Qir Fertilizers Training Center (2009) for 3 days.
- : GRAPHICS DESIGN AND BULDING EXP03R300 (Honeywell DCS) training held in Abu Qir Fertilizers Training Center (2009) for 2 days.

- : CONTROL EXECUTION ENVIROMENT - C200 C300 EXP20R300 (Honeywell DCS) training held in Abu Qir Fertilizers Training Center (2009) for 3 days.
- : AC800M (ABB DCS) control builder held in Abu Qir Fertilizers Training Center (2006) for 5 days.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2013 till now
- Employer** : Abu Qir Fertilizers Company
- Job title** : Instrumentation & Automatic Control Department Manager
- Job Description** :
- Specialist at process control systems, Emergency shutdown systems fire and gas system boiler management systems, speed controlling systems for turbines, overspeed and vibration systems for fertilizer, petrochemicals, oil and gas industry.
 - Carry out a variety of maintenance activities such as trouble shooting, diagnosis, repair, modification and installation. Maintain efficiently field instrumentation for gas turbines, steam turbines, waste heat boilers, and desalination plant and its auxiliaries.
 - Preventive and Corrective Maintenance of control command for plant control system & ESD and field instrumentation breakdowns and planned maintenance work with minimum direction and supervision.
 - Using the computerized maintenance system, orders the spare parts from the warehouse and maintains records of all maintenance work completed.
 - Implementation of preventive maintenance schedules. Includes determining priorities, allocating manpower and equipment/tools and ensures the timely completion of jobs according to schedule and work permits.
 - Evaluate performance of electronic equipment and recommend modifications, as necessary to enhance/improve safety and efficiency and minimize cost of such. Ensures the update of files for any major modifications carried out.
 - Ensure that all maintenance work is carried out in accordance with the safety procedures and plant operational requirements.
 - Report repeated breakdowns and assist in RCFA to identify an optimum solution to resolve the problem.
 - Provide on the job training to new craftsmen in order to equip them with the necessary skills to be able to carry out maintenance repair work as planned.
 - Pre-commissioning, FAT, commissioning, SAT and Start-up activities for new projects.
 - Perform all instrument maintenance activities which include preventive, corrective and predictive maintenance for Compressors, turbine, field instrument, control systems and ESD system.
 - Prepare and review optimum stock and re-order levels and to ensure availability of spare parts.
 - Lead Shutdown activities installation, calibration, configuration and maintenance.
 - Frequent contacts with safety, production and other maintenance disciplines staff mainly at own level for exchange of information and

coordination.

- Occasional contacts with suppliers for follow up on diagnosis repairs or spares.

Dates : From Oct. 2008 till Jun. 2013
Employer : Abu Qir Fertilizers Company
Job title : Instrumentation & Automatic Control Senior Engineer
Job Description :

- Pre-commissioning, FAT, commissioning, SAT and Start-up activities for AFC2 new projects.
- Perform all instrument maintenance activities which include preventive, corrective and predictive maintenance for Compressors.
- Provide troubleshooting, technical direction, and supervision over preventive and breakdown maintenance of Instrument for Compressors.
- Prepare and review the required spare parts of Instrument for Compressors.
- Shutdown activities calibration, configuration and maintenance.
- Development of instrument and control portion of P&ID's.
- Creation and management of the instrument Index Database.
- Specification and selection of filed instruments to meet performance criteria.
- Instrument sizing calculations (Control Valves, relief valves, flow elements and thermowell vibration calculations).
- Specification, selection and purchase of all equipments.
- Specification, selection and purchase of Process Control Systems and Safety Systems.
- Functional design of the Process Control Logic and safety Logic (defining requirements).
- Create and manage instrumentation scope work for project.
- Oversee development of detailed design drawings including instrument planes, Details, Wiring, Loops and fabrication drawings.

Dates : From Jan. 2006 till Oct. 2008
Employer : Abu Qir Fertilizers Company
Job title : Instrumentation & Automatic Control Head Shift Engineer
Job Description :

- Responsible for field devices calibration.
- Perform instrumentation shift report.
- Perform instrumentation diagnostic and maintenance activities.
- Shutdown activities calibration, configuration and maintenance.

Dates : From Sep. 2003 till Dec. 2005
Project : Nubaria Combined Cycle Power Station (2x750MW)
Job title : Instrumentation Project Construction & Start-up Engineer
Job Description :

- Approving designs & submittals, site acceptance test.
- Participate in pre-commissioning, commissioning and start-up for gas turbine, steam turbine and its auxiliaries.
- Testing and commissioning of lube oil system (oil tank vapor Extractor, main and auxiliary lube oil pump, emergency lube oil) Pump, jacking oil system, turning gear and control oil system).
- Steam seal system.

- Drains system.
- Air extraction system.
- Vacuum pump commissioning.
- Water box vacuum pump commissioning.
- Condenser tube cleaning system.
- Debris filters commissioning.
- Commissioning of HP & IP by pass system.
- Participate in pre-commissioning, commissioning and start-up for:
 - Condensate system & condensate pumps.
 - Feed water system (LP, HP/IP) & FWP's.
 - Circulating water system & CW pumps.
 - Sump pumps.
 - Review P&ID's and engineering documents (data sheets, etc.).
- Commissioning and start-up for:
 - Steam turbine generator I&C equipment (Mitsubishi Heavy Industries).
 - Gas Turbine generator I&C equipment (Siemens).
 - Alspa p320 Distributed Control System (DCS) for HRSG & auxiliary.

MAJOR PROJECTS DETAILS:

- Upgrade Overspeed safety system for steam turbine and vibration monitoring system (Bentley Nevada (2016 – present):
Upgrade the old Overspeed system for 4 steam turbines the old system was DR-EHORN.
 - Provide old system detailed function description.
 - Participate in System selection.
 - Include System specifications.
 - Technical proposal evaluation.
 - Preparing specification for tender.
- Instrument air compressor and Air dryer (2014 – 2015):
Upgrade the control system of 4-air compressor for instruments air and Air dryer from relay logic to PLC S7 Siemens.
 - Provide old system detailed function description.
 - Participate in System selection.
 - Include System specifications.
 - Technical proposal evaluation.
 - Pre-commissioning, FAT, commissioning, SAT and Start-up activities and prepare its punch list.
- Voith speed controller revamps (May 2012 – 2015):
Upgrade speed controller system for 4-turbines from Turbolog ETS 301 to Turcon DTE. Ammonia Plant Machinery Control System speed controller revamp Voith Turcon DTn, DTe duties Implemented by ThyssenKrupp UHDE, Voith.
 - Provide old system detailed function description.
 - Participate in System selection.
 - Include System specifications.
 - Technical proposal evaluation.
 - Designed for a new loop diagram for the new speed controller integrated with ESD system and DCS control system.
 - Pre-commissioning, FAT, commissioning, SAT and Start-up activities and prepare its punch list.

- AFC2 main control system and ESD revamp (2008 – 2011):
ABU QIR II (Ammonia, compressors House, Nitric Acid and Ammonium Nitrate Plants). Instrumentation and Control system (DCS Honeywell Experion, ESD HIMA ELOPII, Field Instrumentation) complete upgrade from single Controllers pneumatic and electric to DCS Honeywell Experion PKS R310, HIMA ELOPII ESD and complete Field instrumentation Replacement (5000 I/Os DCS points, 5000 ESD points).
 - Provide old system detailed function description.
 - FEED study, Contract preparation, Construction & execution, Monitoring & control, FAT, commissioning & SAT, Start-up, Preparing punch list, Final take over Contractors: ThyssenKrupp UHDE Services.
 - System and field devices installation.
 - Pre-commissioning, FAT, commissioning, SAT and Start-up activities.

- Field of experience :**
- Over 13 years Instrumentation & Automation experience, 10 years in petrochemicals, 6 years in Ammonia Plant and compressors including 4 years in managerial level.
 - 10 years instrumentation projects experience including all project life cycle phases (ITB, FEED, planning, design, monitoring and control, leading, punch list preparation and final take over).
 - The main role is to ensuring the instrumentation integrity to continue maintaining the availability and reliability including chairman of instrument reliability improvement effort.
 - Implementation of DCS, PLC, ESD and Machinery Control System including FAT, SAT, installation, commissioning and punch list preparation.
 - Engineering and design of control loops, logic and control system configuration and implementation.
 - Knowledge of international codes and standards.
 - Check and approve P&ID's, HAZOP study and SIL study.
 - Management of maintenance and shutdown plan including planning, monitoring, controlling and leading.
 - Preparing instrumentation quality management, training, procurement and upgrading plan.
 - Check and approve control and instrumentation engineering document including project execution plan, scope of works, standards, specification, control narratives, loop drawings, logic drawings, etc.
 - Instrumentation procurement plan management and implementation including invitation to bid ITB, technical bid evaluation, purchase order preparation, etc.
 - Effective and efficient solution for process and instrumentation problems.
 - Strategic thinking and planning.
 - Building knowledge inventory and learning organization system through knowledge management plan.
 - Leadership, communication and team work building skills.
 - Control Systems:
 - Honeywell Experion PKS DCS System.
 - HIMA ELOP II H51R ESD System.
 - VOITH Turcon DTn and DTE speed control system.
 - SIEMENS PLC.

- Bentley Nevada 3500 vibration system.