

Holds a B. Sc. in Electrical/Electronics Engineering (Computer Systems & Control) and a Diploma in Project Management. Has more than 7 years experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 12/07/1986
Gender : Male
Marital Status : Single
Residence : Mansoura

EDUCATION

- : B. Sc. in Electrical/Electronics Engineering (Computer Systems & Control), Mansoura University, 2008
- : Diploma in Project Management, American University in Cairo (AUC), 2010
- : Secondary Education: Mansoura Language Schools (M.L.S), 2003

LANGUAGES

Arabic : Native Language
English : Excellent
French : Basics

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : AutoCAD
- : Primavera

TRAINING COURSES AND CERTIFICATIONS

- : Training at 4s sphinx for Security Systems as Electrical System Engineer (Jan. 2010).
- : Trained at Egyptian Fertilizers Company as Instrumentation & Control Engineer (Sep. 2009).
- : Summer trainings:
 - Training at Delta for Fertilizers Company as Instrumentation and Control Engineer (Aug. 2008).
 - Trained at Faculty of Engineering (Mansoura University) on PLC Programming (Aug. 2007).
 - Trained at Delta Company for Electricity Production as Instrumentation Engineer (Aug. 2006).

- : Java J2SE (certified expert).
- : SCJP – Sun Certified Programmer for Java 5.0.
- : Siemens DCS System (PCS7) (Certified).
- : Control Valves (Troubleshooting & Maintenance).
- : PLC programming.
- : Designing and implementing electronic boards.
- : HAZOP Study.
- : Data Analysis.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2014 till now
- Employer** : Egypt Hydrocarbon Corporation (Nitric Acid /Ammonium Nitrate)
- Projects** :
- EHC – Main Plant NA/AN:
 - As a Team Member responsible for the following:
 - Following up the project during Construction, Mechanical Completion, Commissioning phases:
 - Inspection for the shipments related to the instrumentation.
 - Inspection for Instrument installed in the field according to the Design specification, data sheet and hook up and P&ID ...
 - Trip and Interlock checking for safety shutdown system.
 - Loop checking from the DCS to the field instrument.
 - Following up Start-up Phase:
 - Troubleshooting and Maintenance for all field Instrument.
 - EHC – Jetty Area Project:
 - As a Team Leader responsible for the following:
 - Reviewing for all project Engineering documents related to Instrumentation (Engineering Specification, Datasheets, Vendor Documents, Hook up Drawings, P&ID, Wiring ...etc.).
 - Inspection for all shipments delivered related to instrumentation.
 - Installing, commissioning and start-up for all field Instrument (Flow, Level, Pressure ...) and Control Valves.
 - Installing, Commissioning and start-up for Main control System (HIMA) and Fire & Gas Detection System.
 - Preparing as Built Documents and Loop Folders for each device.
 - Preparing and ordering new spare parts related to Instrumentation.
- Job title** : I&C Engineer
- Job Description** :
- Troubleshooting and Maintaining equipment which is used to monitor and control engineering systems, machinery and processes.
 - Make sure that all systems DCS/ESD/PLC/FGS are working effectively, efficiently and safely, reviewing all modification shall be done in any of automation and control system and implementing the new modifications.
 - Sizing and Calculation for control valves, orifices and Transmitters.
 - Reviewing all project engineering documents related to Instrumentation and control (Engineering Specification, Control Philosophy, Datasheets, Vendor Documents, Hook up Drawings, P&ID, Wiring ...etc).
 - Make sure that instrument and control systems and processes operate effectively, efficiently and safely.
 - Preparing the procedure for preventive, Corrective and predictive

maintenance for Instrument and control systems installed.

- Planning required upgradation for instruments to achieve production quality and cost minimizing.
- Planning and implementing additional control loops as per site requirements
- Ensure Spares balance and inventory control for all instruments' spare parts (MAXIMO System).
- Preparing and ordering the two years spare parts and review vendors offers.
- Familiar with engineering standards ISA, IEEE, NAMUR, NEMA, IEC.

Dates : From May 2010 till May 2014

Employer : Egyptian Fertilizers Company - OCINV (Ammonia /Urea)

Projects :

- Installing, Adjusting, Pre-Commissioning and Commissioning for all Field Instrument for New Compressor.
- Checking the whole control loop, Perform Performance Test according to Standards, Monitoring calibration, installation and adjusting for vibration, key phasor, thrust and speed Probes and proximator (GE-Bentley Nevada system (3300)) for all Gas Turbine/Steam Turbine, Centrifugal Compressor and other rotating equipment.
- Checking the whole control loop, Perform Performance Test according to Standards, Monitoring calibration, installation and adjusting for vibration, key phasor, thrust and speed Probes and proximator (GE-Bentley Nevada system (3500)) for all Gas Turbine/Steam Turbine, Centrifugal Compressor and other rotating equipment.
- Upgrading system GE-Bentley Nevada system (3300) to GE-Bentley Nevada system (3500).
- Plant Turnarounds (June 2010, October 2010, June 2012, November 2012): Working as a team member in the following tasks:
 - Compressor House instruments (vibration, axial and speed measurements).
 - Field transmitters (pressure, temperature, flow...).
 - Control Valves mechanical and electrical maintenance.
 - DCS maintenance and modifications tasks team including IMS jobs.
- Assembling, configuration, start-up and operation of a new ABB Advant 450 training controller in our site (Nov. 2012).
- Urea Revamp Projects & New High Steam Pressure Boiler Project:
 - Team Member for Egyptian Fertilizers Company - New High Steam Pressure Boiler (Thermax Babcock Wilcox India), 170T/H of 120 Bar super-heated steam.
 - Team Member for Egyptian Fertilizers Company -New Revamp projects, (Uhde GmbH), the project goal is to increase plants production capacity from 1925 Ton/Day to 2250 Ton/Day of Urea granules.
 - Engineering Phase:
 - Studying the instruments' technical data and confirming that it meets the specifications and requirements.
 - Qualifying and comparing between different suppliers for the Field Instruments, control valves and DCS/ESD system.
 - Sizing for Control Valves and Flow elements for ΔP measurements (for example, Orifice plates).
 - Construction Phase:

- Inspection for the shipments related to the instrumentation.
- Installation of the instrument according to P&ID and Hook-Up drawings.
- Cable testing, meggering and routing on cable trays.
- Wiring the instrument to the DCS according to the loop wiring diagram.
- Site Acceptance Test (SAT) for I/A SERIES FOXBORO DCS / TRICONEX BMS.
- Commissioning and Mechanical Completion Phase:
 - Calibration for all instruments and control valves.
 - Loop checking from the DCS to the field instrument.
 - Tuning the PID parameters in the control loops.
 - Trip and Interlock checking for safety shutdown system.
- Performance Test Phase:
 - Confirming that the instrument accuracy meets the requirement.
 - Confirming that the measurement is satisfactory in different plant loads.
- Operation Phase:
 - Preventive Maintenance and Calibration scheduling for the instruments.
 - Ordering of the spare parts to guarantee continuous plant operation.

Job title : I&C Engineer

Job Description :

- 4 years experience in the field of construction & maintenance of instrument systems applied to process control of oil & gas, Fertilizer industry.
- Area of experience:
 - General Instruments.
 - Analytical Equipment.
 - DCS/ESD/PLC control Systems.
 - Control Valves.
 - Vibration, Axial and speed Measurements.
 - Gas Detection Systems.
 - HAZOP Study.
- Main Roles / Daily Activities:
 - Perform the ordinary tasks about preventive maintenance for all instruments & instrument systems in Field (Pressure, Flow, Temperature, Level, Analyzers, etc.).
 - Monitor the performance of the DCS/ESD system and create a daily, weekly, monthly report about it and any modifications performed.
 - Responsible for following up preventive maintenance for analyzers (Gas, Liquid) as mentioned by ISO Standard.
 - Study the status of the spare parts of Instruments & DCS, Ordering new spare parts and reviewing technical offers.
 - Troubleshooting, Calibrating & maintaining instruments and instrumentation systems.
 - Following up the new projects held in our Plants (Urea Revamp, New Boiler) and studies for new modifications.
 - Preparation and Reviewing of data sheets, instrument drawings, I/O wiring diagrams, Logic Diagrams, Loop Diagrams, P&IDs and specifications.

- Calibrating, Maintaining and Installing Control Valves, Solenoid ...etc.
- Sizing calculations for Control Valves, Orifices ...etc.

- Field of experience :**
- Good knowledge of Nitric Acid & Ammonium Nitrate the process.
 - Good knowledge of Ammonia & Urea the process.
 - Basics of management and workflow MAXIMO system.
 - Good knowledge of Data Analysis.
 - Good knowledge of HAZOP Study.