

Holds a B. Sc. in Electronics & Communications Engineering and has over 18 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/09/1976
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electronics & Communications Engineering, Menoufia University

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Leadership Skills Development Workshop.
- : Practical Safety Risk assessment and shutdown systems.
- : Lead Engineering Development Program.
- : Practical control valve sizing, selection and Maintenance.
- : Practical Industrial Flow Measurement for Engineers and Technicians.
- : Risk Management Training (Risk analysis, Probability analysis & consequence analysis, Hazard Identification and verification, Hazardous area classification).
- : Practical Safety Instrumentation and Shutdown Systems (SIS).
- : Turbo expander Technology and maintenance MTC.
- : ICSS (Integrated Control and Safety System).
- : Instrumentation & Control Fundamentals.
- : Process Fundamentals Program.
- : Off-Shore Survival: HUTE (Helicopter Underwater Escape Training).
- : Yokogawa Distribution Control System DCS.
- : Allen Bradley Control System.

- : Data & Voice Networking: NORTELNETWORKS.
- : Utilities packages trainings:
 - Multi-Phase Flow Meter MPFM (Roxar).
 - Well Head Control Panel WHCP (Alderly).
 - Nitrogen Package.
 - Oil Metering (Alderly).
 - Gas Metering (Alderly).
 - Acid Gas Incinerator (PCC - STERLING).
 - Heater (verga engineering).
 - Fuel Gas Skid (Oil and Gas System).
 - Booster Compressor (Howden).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2014 till now
- Employer** : TOTAL E&P, Qatar
 Total is a global, integrated energy and provider, the world's fifth-largest international oil and gas company and second-largest solar operator.
- Project** : Average daily production of Al Khalij field: 23 000 bopd + 210 000 bwpd:
 Off shore field with four main production platforms and three well satellite platforms, connected to train A&B at terminal located on Halul island, 120 km away from Qatar.
 Around 45 production wells activated by electrical submersible pumps, 8 water injection wells and 3 water source wells. Fiscal and allocation metering systems. ICSS System with 18 PLC and communication network.
- Job title** : Lead Instrumentation Methods Engineer
- Job Description** :
- HSE:
 - Knowledge of Company HSE policy, rules and procedures (HSE MS) and in particular ISO14001 standard.
 - Observance of the company HSE policy, rules and procedures.
 - Participation to HSE activities and global improvement (e.g. referential, reporting, REX, audits, MAESTRO, trainings, HSE action plans...) and specific other HSE responsibilities.
 - Asset Integrity:
 - Contribute to the ALK Asset Integrity initiative by reporting any anomaly, defect, bad practice, and lack of equipment, lack of competence that could result in a major HSE incident or loss of production. I am the technical authority regarding Instrument, fiscal metering and ICSS in Al Khalij field.
 - Activities:
 - Ensure the quality of operation by organizing audits and review. Also, design, follows-up and optimize maintenance concepts in close cooperation with the maintenance contractor.
 - Determine, within my field, the maintenance policy of the subsidiary.
 - Defining the types of maintenance to be carried out on equipment (preventive, systematic or conditional, corrective, etc.).
 - Defining the stock management policy regarding spare parts (type of management, supply thresholds, etc.).
 - Establishing the operating and maintenance procedures to be applied.

- Updating maintenance routines.
- Prepare the budgets for his overall area of activity.
- Drive the Technical contract in my own activity and ensure a good quality of result.
- Ensure proper planning, scheduling, and execution of heavy maintenance operations taking into account production or other constraints.
- Analyse indicators provided by the CMMS, stock management and intervention reports in order to optimize maintenance in his area (HSE, availability, preservation of equipment, OPEX reduction).
- Propose and justify recommendations for the improvement of equipment availability, efficiency or maintainability and works in good collaboration with other entities to execute desired modifications.
- Make sure that all equipment and spare parts documentation are updated (paper/electronic documentation and CMMS data base, SAP system).
- Ensure that the preventive maintenance operations scheduled on Facilities are executed as planned, ensuring that all necessary spare parts and materials are available as and when required.
- Prepare scopes of work for approved work programs ensuring that all relevant operating procedures and safety regulations are written in and that all necessary materials and equipment are available as and when required.
- Prepare strategy, calls for bid and issues these to contractors invited to tender for work to be carried out.
- Assist with the analysis of equipment malfunctions and makes recommendations for repair and future preventive action.
- Very good knowledge of TOTAL GS standards.
- Attend and witness FAT for HIPS, NOVEC 123 and fiscal metering Skid at the vendor factory.
- Get liaison with the following resources: Other operations department within the subsidiary, Maintenance contractors.
- Responsible for maintenance Methods within the field of competence.
- Ensure that maintenance Methods under my responsibility are carried out in strict accordance with the COMPANY's current safety rules and operation procedure and in accordance with standard industrial practice, thereby guaranteeing the quality of maintenance operations, within my field, carried out on site by maintenance team.
- Guarantee a good level of availability of equipment.

Dates : From Sep. 2013 till Aug. 2014

Employer : McDermott International, INC, Saudi Arabia

A leading engineering procurement construction and, installation (EPCI) company focused on executing complex offshore Oil & Gas projects worldwide.

Projects :

- Engineering for offshore Safaniya phase including new 10 wells platform (1040/1049) and 5 Auxiliary platforms (216/221)
- Engineering certificate for Manifa field development 2PDM 460/469 and 470/479 platforms and 10 observation platforms

- Job title** : Senior Instrument Engineer
- Job Description** :
- Supervise and Lead a team of engineers and designers in carrying out detailed engineering work or FEED / Proposal work for large sized projects with full responsibility for conceptual and detailed design and provide necessary technical information for procurement in compliance with project specifications / data sheets and within budgeted man-hour and project schedules.
 - Review the ITB (Invitation To Bid) documents provided in the proposals, issue inquiry requisitions, reviews techno-commercial vendor offers, prepare various estimates like Bill of quantities, Material cost, Man-hours, Software cost, Vendor assistance, Vendor visits & any other estimates as needed for the bid.
 - Review contract requirements for project execution, organize the preparation of the Technical Document Register (TDR), identify requirements and scope of work; review specifications, Process Data Sheets (PDS), Piping Material Specifications (PMS), Piping & Instrumentation Diagrams (P&ID's), Plot plans, General Arrangement (GA) drawings, Review Philosophies, Area Classification Drawings, Fire and Gas Detector Layout Drawings and other relevant documents. Establish contract review criteria, identify and resolve discrepancies and divergences from original proposal through the investigation of technical queries to projects/client.
 - Organize the preparation of equipment and material specifications and data sheets, administer the development of detailed engineering calculations and drawings including the preparation of the design basis document, Instrument Index, Input & Output Lists, Bill of Quantities, Block Diagrams, Equipment system specifications, cable routing, control room layouts, Cause and Effect Diagrams, Complex Control loop narratives and Safety narratives, Loop Diagrams, Functional Logic Diagrams, Terminations Diagrams, Installation Hook-up Drawings, Instrument Plot Plans, Control Panel Drawings, Control/Equipment Room Lay-outs, Cable Tray Layouts, Cable Schedules and Cable Drum Schedules, JB schedules, Interconnection Schedules, Installation detail drawings, Fire/Smoke Detection Lay-out and Alarm Lists.
 - Coordinate between teams (fabrication, electrical, communication, supply chain and, drafting).
 - Responsible for preparing technical proposals for bids including MTO, CTR.
 - Responsible for the preparation of instrumentation deliverables including index, data sheets, specifications.
 - Manage the engineering procurement process including RFQ, TBE, PR.
 - Direct and monitor Material Take off (MTO) activities, identify irregularities and shortfalls, take corrective action as required.
 - Participate in HAZOP meeting and undertake SIL studies with client and representatives of other engineering disciplines.
 - Interact with Quality Assurance for quality issues; strictly ensure compliance with Company's ISO Quality procedures. Coordinate Internal and Client audit requests; facilitates audit procedures of engineering systems within the department.
 - Coordinate the preparation of Purchase Requisitions for the procurement of equipment and materials. Ensure materials are obtained within scheduled timeframes and budgeted costs.

- Witness and accept Factory and Site Tests (FAT/SAT) and inspect completed equipment installations to ensure compliance with design and specifications as required by the project.
- Participate in determining training and development requirements, Provide inputs in the identification of skill gaps and training needs.
- Review the work of the assigned personnel for adequacy, technical quality and for purpose of ensuring that the schedules and budgets are maintained.

Dates : From Jun. 2012 till Sep. 2013

Employer : Aibel Company - Norway – Stavanger
A leading service company that works within the oil, gas and renewable energy sectors.

Project : Draugen offshore Platform upgrades 2013 Campaign Project, Shell, Norway: Project scope is to install additional living quarter (ALQ) on the Draugen platform as well as replace the current free-fall lifeboats. In order to, alleviate the current bedding constraint on upcoming project and outstanding E&M scope.

Job title : Senior Instrument Engineer

Job Description :

- Participate in the development of P&ID's, cause and effect.
- Prepare data sheets as well as requisition for control valves & orifice plates.
- Member of the package management team who manages requisition aviation fuel skid following NORSOK and DEP's (Shell) standards.
- Prepare in tools datasheets for safety relief valves "sizing & selection" following API standards.
- Responsible for preparing instrument indices and lists such as; instrument list I/O list, alarm and shutdown set point list following EIS Aibel system.
- Assist procurement personnel in procuring equipment, materials and services.
- Prepare technical reports for required equipment when potential work scope change occurs to determine equipment specifications and, utilization.
- Capture scope change (additions / deletions) and submit claims when required and provide necessary inputs to change management systems.
- Optimize engineering for constructability and construction efficiency.
- Review suppliers' documents to make sure it's combatable with the required specifications.

Dates : From Oct. 2010 till Jun. 2012

Employer : CB&I Lummus Company
The most complete energy infrastructure focused company in the world.

Projects :

- SOUTH CAUCASUS PIPELINE (SCBX/BP): Upgrade the pipeline of the existing SCP system to accommodate an additional 16.0 BCMA, Install new intermediate compressor stations and parallel pipeline section.
- Cartagena Refinery Expansion Project (Reficar): Refinery expansion project to process an additional 150,000 BPSD of crude. Approx. 15 process units and supporting utilities and offsite.

- SEGAS (Spanish Egyptian LNG): Study to improve PRMS operation, Egypt, and Participate in preparing the execution plan and scheduling, HAZOP study to related modification.
- Nagarjuna, Cuddalore Refinery, Tamil Nadu, India: New Refinery, Partially relocated from Germany; CB&I Lummus was commissioned by the client to dismantle selected existing processing units and incorporate them into a new refinery complex in India.

Job title : Senior I&C Systems Engineer

- Job Description** :
- Have experience in the use of SPI (Intools) for the preparation of discipline deliverables such as I/C wiring Diagrams, Instrument Loop Diagrams, Instrument Specification Sheets, MTO etc.
 - Be able to demonstrate a high level of competency for the sizing and selection of field instrumentation including control valves, safety relief valves, orifice plates etc.
 - Prepare, review, approve and ensure the quality of instrumentation deliverables:
 - Instrument index.
 - I/O list.
 - Development of instrumentation data sheets (PRV, ESDV, CV and transmitters).
 - Systems (DCS, ESD, SCADA, ...) specifications.
 - Wiring diagrams.
 - Cable routing layouts, instrument layouts.
 - Sizing of Equipment and instrumentation (Control Valves, FE, PRV etc.).
 - Cause & Effect diagram safe charts.
 - Instrumentation narratives and control philosophy.
 - Design review and interdisciplinary coordination.
 - Technical bid evaluation and vendor drawing review.
 - Proposal Engineering.
 - SIL assessment and evaluation.
 - Man hour estimation and control.
 - Coordinate, interface and provide inputs with other parties, activities for all assigned projects, on technical matters, project schedule and implementation strategy in various phases of lifecycle i.e. study, SOW preparation, pre-award evaluations, engineering, procurement, commissioning and start-up phases.
 - Ensure all applicable environmental and safety and engineering standards and policies, within process design engineering, are fully incorporated on all assigned projects.

Dates : From May 1999 till Oct. 2010

Employer : Gulf of Suez Petroleum Company [GUPCO] / British Petroleum joint venture (Leading Exploration & Production Company in Egypt)

Job title : Senior I&C Systems Engineer

- Job Description** :
- Define the types of maintenance to be carried out on equipment (preventive, systematic or conditional, corrective, etc.).
 - Ensure that the preventive maintenance operations scheduled on facilities are executed as planned, ensuring that all necessary spare parts and materials are available as and when required.
 - Assist with the analysis of equipment malfunctions and make

- recommendations for repair and future preventive action.
- Ensure that maintenance methods under his responsibility are carried out in strict accordance with the company's current safety rules and operation procedure and in accordance with standard industrial practice, thereby guaranteeing the quality of maintenance operations, within his field, carried out on site by maintenance team.
- Direct and coordinate all installation, servicing, calibrating, repairing and testing of instrumentation and control systems in the Plant.
- Liaise with operations to ensure the provision of an adequate service, including providing time estimates for work completion and relevant priorities
- Liaise with contractor and equipment manufacturers to evaluate various specific tasks on an economic and capability basis.
- Manage and provide onsite technical support for Process calculations (valve sizing, press. Drop control valve and safety valve sizing), PFD and P&ID generation, HAZOP, writing SORs (Statement of Requirements), SOW (Scope of Work), Conceptual Study Reports, MOC (Management of Change), plant troubleshooting, carrying out preliminary feasibility studies, cost & benefits estimations, etc.).
- Participate in the CAPEX & OPEX.
- Identify & order spare parts through the MAXIMO Inventory System and comprehensively update the onboard Critical Instrument Spares inventory.
- Carry out permit to work tasks as area authority for designated area and conduct toolbox talks/ job safety analysis as required.
- **ACHIEVEMENTS:**
Has successfully participated in the Pre-commissioning, Commissioning & Start-up of the following projects:
 - Automation monitoring and control system for ITT Canada Company.
 - Heaters & separators for Esma – 2 & 8 gas wells (and acceptance for the system).
 - Upgrading measuring system by using Daniel instruments for free water vessels.
 - AGAR system for level & emulsion control of water oil separating vessels.
 - Scanner 1140 flow computer measuring system.
 - Special software for Daniel 2500 Totalizer applications.
 - Invensys DCS system in process area.
 - DCS system in Water flood area for sand filter system.
 - Saqqara New plant for Sour oil and gas processing, Loop testing, Construction, ProComm, comm. and start-up phases.
 - Pre-commissioning, commissioning & start-up activities of SAQQARA offshore platform & SAQQARA onshore oil, gas & water processing facilities (40,000BPD crude oil, 5,000BPD produced water & GAS 30MMSCFD).
 - Attend the FAT test for DCS control system (ABB 800XA) in London during 15th May 2007 to 1st June 2007.

Field of experience : • Professional I&C Systems Engineer with more than 18 years of diversified experience. Specialized in instrumentation and control systems in all phases of the job such as: FEED, detailed engineering,

pre-commissioning & commissioning, start-up, maintenance and operations, especially in the oil and gas industry. He has been exposed to on-shore refinery plants and off-shore production platforms, having participated in many major projects in Egypt, Qatar, Norway, Yemen, Dubai and, Saudi Arabia.

- Has great experience working with all types of instruments like transmitters (level, flow, and pressure), valves (control valves, Safety relief valves, and on/off valves), control systems (DCS/PCS, Turbo-machinery, gas compressor control, anti-surge, and SIS/SGS/SSS), fire and gas systems, metering packages (custody and transfer), utility and other equipment packages (Nitrogen plant, water cooling systems, power generations, well head control, multi phase measurement, and air compressor) and analyzers (water cut, moisture, oil in water and CO₂).
- Currently he is holding the position as a Lead Instrumentation Methods Engineer with one of the major Oil and Gas Exploration and Production companies, TOTAL, in Qatar.
- Previously, he was holding the position as a Senior Instrument Engineer with one of the major EPIC, McDermott, in Saudi Arabia.
- June 2012: he was working with Draugen Offshore Platform upgrades: 2013 Campaign Project, Shell, Norway.
- Prior to that, he was a member of CB&I Lummus (The most complete energy infrastructure focused company in the world), USA where he was holding the position as Senior Instrument and control System Engineer. During his tenure with CB&I, he was assigned to four of the most demanding projects including, SOUTH CAUCASUS PIPELINE (SCBX/BP), Cartagena Refinery Expansion project (Reficar), SEGAS (Spanish Egyptian LNG) and Nagarjuna, Cuddalore Refinery, Tamil Nadu, India.
- His career started with Gulf of Suez Petroleum Company (GUPCO) / British Petroleum share, Egypt in 1999.
- **SPECIFIC AREA OF EXPERTISE:**
 - Good knowledge of international codes and standards (i.e. API, ISA, BS...etc.) and ARAMCO Standards.
 - Good knowledge with turbo-machinery control systems and Bentley Nevada vibration system.
 - Ability to perform safety analysis and calculations according to IEC 61508/61511.
 - Extensive working experience in instrumentation, automation and DCS system (ABB 800XA, YOKOGAWA CS 3000, Allen Bradley Control Logix 5000) in the Oil, Natural Gas fields.
 - Instrument sizing calculations (control valves, relief valves, flow elements, and thermo well vibration calculations).
 - Good knowledge of Voltage drop calculations, specification, selection and sizing of all instrument cables.
 - Specification, selection and purchase of all instrumentation.
 - Specification, selection and purchase of process control systems, safety systems, vibration Monitoring systems, tank gauging systems, leak detection systems, RTU's.
 - Functional design of the process control logic and safety logic (defining requirements).
 - Operation / maintenance support to offshore oil & gas control & instrumentation systems.
 - Experience in programming and configuring modern control

- systems including DCS/PLC/SCADA systems.
- Demonstrate leadership & personnel supervisory skills.
 - Extensive knowledge of instrument maintenance procedures on process and utilities equipment, on an Oil & Gas facility.
 - Very good knowledge of Norsok standards as I-001.I002, I104, I105.
 - Proficiency in conducting training for onshore /offshore personnel on Instrument Equipments and newly installed/upgraded systems.