

100572-ELE-1248CDGOB-E-1985
Lead Construction Supervisor Engineer

Holds a B. Sc. in Electrical Engineering and has more than 20 years of professional experience in Instrumentation and Electrical Engineering design, Construction, Maintenance, Project Study, Evaluation, Cost & Budget Estimation, Control System, Commissioning of major and multi-discipline projects.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Currently KSA

EDUCATION

: B. Sc. in Electrical Engineering, Alexandria University, 1985
: PENG (Professional Engineering Graduated), Toronto – Canada, 2014

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Oil & Gas Fire Alarm System.
: Power System Study Program (ETAP Software).
: Fundamental of Automatic Control Systems (FOXBORO Spec-200, Dcs-2000 & Field Instruments).
: Yokogawa Control System as stardum & Prosafe.
: Allan Bradley (SLC 5/04), (PLC 5/40) & CONTROL LOGIX 55555.
: Operation & Maintenance of Army Radio Electronic Devices for Communication & Restriction Waves.
: CHPDEP (Chevron Project Development & Excussion Process) (Road Map).
: JDE/ARIBA General End User & Eam Work Initialization Training.
: Risk Assessment Workshop.
: Work Breakdown Structure Workshop (WBS).
: Operation Excellence Workshop (OE).
: Team Building Program.

- : MOC (Management of Change) as first reviewer.
- : Quality Specification Workshop.
- : ISO 9000 Awareness Training.
- : Operation Excellent Tents as per Chevron system (OE).
- : H₂S Safety Awareness Training.
- : Incident & Injury Free Orientation (IIF).
- : Security Is Everybody's Responsibility.
- : Health & Safety (SPI).
- : Defensive Driving Training.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2020 till now
Employer : TECNICAS REUNIDAS Company (Saudi Arabia)
Job title : Lead Construction Supervisor Engineer
- Dates** : From Aug. 2019 till Dec. 2019
Employer : H.H. Angus & Associates Ltd. North York, ON/CA
Job title : Lead Instrument/Control Engineer
- Dates** : From Mar. 2016 till Jun. 2019
Employer : WorleyParsons – Sarnia, ON/CA & Kuwait
Job title : Lead Design Review & Const. Supervisor Eng. – Instrument & Control
- Dates** : From Mar. 2014 till Dec. 2015
Employer : Chevron Coop. – Bangladesh
Job title : Facility Mentor & Lead Design Engineer as E & I/C
- Dates** : From Mar. 1999 till Feb. 2014
Employer : Joint Operations (Saudi Chevron – KGOc)
Job title : Electrical & Instrument Lead Design Engineer
- Dates** : From Oct. 1989 till Feb. 1999
Employer : Saudi Aramco (PMT)
Job title : Senior Instrument Engineer

HIGHLIGHT OF LEADERSHIP INITIATIVES:

- Gas Compressors Package (Haradh-01), Saudi Aramco Plant (Value \$ 2.0 B): My responsible to manage the Engineering Construction as main Contractor with other SC to Integrated Control and Safety System (Honeywell systems) which will provide process control, monitoring and safety functionality for Gas Compressors facilities, in addition to that:
 - Review Electrical, Instrument, Control, Telecom, Security & SCADA technical documentation and requirements starting from Gas

- Battery Limit up to transport Oil & Gas from Haradh-01 to Hawiyah.
- Control of Subcontractor discipline engineering detail documents.
- Define Electrical, Instrument / Control engineering / Construction requirements starting from Gas Battery Limit up to Haradh-01 Plant.
- Provide technical support to Project group as a Team building Work.
- Review & Implement Electrical / instrument detail design on E1L, P&ID's, Interconnection Diagram starting from Gas Battery Limit Manifold Piping lines up to Haradh-01 & from Haradh-01 up to Hawiyah Field.
- Review & implement instrument detail design on P&ID's.
- Power Generation Plant – Mississauga, ON/CA – Part Time (Value \$ 200 M):
 - My responsible preparation of the Instrument and Control Engineering Packages of Low/High Pressure Compressors & Turbine under Nature specifically in the Field Facilities/Plant Design Instrumentation/Control as well as the other Supporting Facilities/Utilities by the Required Scope and MTO Preparation.
 - Instrument Design: machine and process.
 - Control Panels design.
 - Safety Systems design and implementation.
 - Components selection and specification.
 - Machine and process wiring, commissioning.
 - Start-up and commissioning documents of key-turn operations.
 - Detail specification & installation of PLC: Allan Bradley: Control Logix / RS Logix & HMI: Allan Bradley as ICSS system.
- Lower Fars Heavy Oil Development Program Phase – 1 (60 MBPD), Project No. EF 1852 - Steam Injection (Half & Buff System + Floating) - (Value \$ 5.00 B): My responsible to manage the Engineering Construction as PMC to Integrated Control and Safety System (ICSS - Honeywell systems) which will provide process control, monitoring and safety functionality for facilities that are distributed over a wide Project area, in addition to that:
 - Review Electrical, Instrument, Control, Telecom, Security & SCADA technical documentation and requirements starting from Well head up to transport Oil & Gas from Infield Satellite Station Plant (ISS -2 / 3).
 - Control of Contractor & Subcontractor discipline engineering detail documents.
 - Define Electrical, Instrument / Control engineering / Construction requirements starting from Well Head up to ISS Plant.
 - Provide technical support to Project group as a Team building Work.
 - Prepare & Implement Loop check (16,000 Loops) & functional analysis test to all instrumentation & ICSS Systems.
 - Review & Implement Electrical / instrument detail design on E1L, P&ID's starting from Well head, Manifold Piping lines (Steam, Casing Gas, Oil, F.F. Water) & ISS FILED (Package 11.00KV-440 V S/S).
 - Review & implement instrument detail design on P&ID's.

- Review & Implement Electrical detail design on E1Letc., to 24 Nos. of Package 11.00KV-440 V S/S.
- Review & approve all instrument material take-off.
- Review & Implement detail engineering activities (layouts, routings, support...etc.).
- Perform the FAT, SAT & ISAT to all Electrical & ICSS Control System.
- Also, Supervisory Control and Data Acquisition (SCADA) & E.SCADA systems) to provide monitoring and control for the three main pipelines (Export Oil Pipeline, Water Pipeline & Gas Fuel Pipeline) 150KM, disposal wells 20 KM and the steam trunk line 10 KM as following:
 - ❖ Preparation all BOM under the task of SCADA Scope.
 - ❖ Managing Pipeline SCADA Project Team.
 - ❖ Supervision of Installation all kind of field instruments related on pipeline/Trunk line & Remote terminal units (RTU).
 - ❖ IT Infrastructure using both fiber optic and coax cable media base on TCP/IP protocol, network and communication system Installation with OTDR test.
 - ❖ Installation & integration of different Third Party software and hardware network systems & RTU.
 - ❖ Commissioning of RTUs with Network & communication systems & successful completion of project.
 - ❖ Implementation of End User & Asset owner training programs.
- SCADA Project for 1500 Production Wells, 15 Facility Plants, (3000 Instrument Tags) (Value \$70.00 M.):
 - Conducted the preparation of Engineering Studies, Basic and Detailed Engineering Packages and Bid Proposals for the Project/Tenders.
 - Participated in the MTO's Preparation and Cost Estimation in Large LS Turn Key Projects as Well as Cost Reimbursable Jobs.
 - Took care of the Cost Engineering.
 - Participated in the Construction Supervision and the Project Management, etc. as for the Company Projects, I participated as an Individual and as a Leader of a diverse (Multi-Discipline Multi Nationalities) Team of Engineers.
 - Supervision of Installation all kind of field instruments related on well heads & Remote terminal units (RTU).
 - IT Infrastructure using Radio Communication System 2.6 GHZ as point to multi points base on Modbus TCP/IP Protocol, network and communication system Installation.
 - Installation & integration of different Third Party software and hardware network systems & RTU.
 - Commissioning of RTUs with Network & Radio communication systems & successful completion of project.
 - Implementation of End User & Asset owner training programs.
- New Technology of Steam injection for heavy Oil Recovery Project (Value \$ 200.00M):
 - Conducted the preparation of the Electrical & Instrument Engineering Packages (Basic-Detailed) for Any Works of Electrical / Instrumentation/Process Nature specifically in the Field

Facilities/Plant Design Instrumentation & Electrical as well as the other Supporting Facilities/Utilities by the Required Scope, MTO Preparation, Construction Works Supervision, Commissioning and Start-up, etc.

- As for the Company Projects, I also carried out Facilities/Plant Basic and Detailed Design/Engineering (e.g. Facilities Design, Equipment Selection, Equipment Layout, Safety Requirements).
- Assessed Facilities Risk Management and Prepared the Technical Specification Packages for the Company Projects.
- Water Disposal & Injection Projects (4 Phases) (Value \$180.00 M.):
 - Conducted the review and evaluation of the Contractors Engineering (E & I/C) Submittals, Shop drawings.
 - Studied and Evaluated the Various Alternative Design and Construction Procedures and Method Statements Submitted by the Contractor.
 - Verified the Work Progress Measurements and Contractual Payments.
- New Oil Shipping Pumps (17 Pumps) in 5 Different Gathering Centers Project (Value \$60.00M.):
 - Produced and Reviewed the Design of (Electrical & Instrument/Control) Packages Substations /Drawings.
 - Co-Ordinated all of Design/Engineering (Electrical & Instrument/Control) Aspects Among all Participating Disciplines and prepared Invitation for Tender (ITT) Documentation.
 - Conducted a detailed Engineering oversight. Overall Supervision and Administration of Projects/Contracts in all Stages.
- Upgrade of Existing Gas Compressors from 3 Stages to Single Stage (Value \$30.00M.):
 - Reviewed and Evaluated the Contractors Engineering Submittals, Shop Drawings.
 - Studied and Evaluated the Various Alternative Design and Construction Procedures and Method Statements Submitted by the Contractor as well as Verification of Work Progress Measurements and Contractual Payments.
 - Co-ordinated the Required Engineering/Technical Support During the Project Construction.
 - Reviewed the General Contractual Procedures, Reports, Minutes of Meetings, Issues of site Instructions.
 - Maintained Strict Control on the Quality of Workmanship.
- Bibyana Jumper Export Gas Pipeline project & Gas Metering Station (Value \$ 250.00M.):
 - Conducted the Preparation of Engineering Studies, Basic and Detailed Engineering Packages and Bid Proposals for the Project/Tenders.
 - Participated in the MTO's Preparation and Cost Estimation in Large LS Turn Key Projects as Well as Cost Reimbursable Jobs.
 - Managed the Cost Engineering.
 - Participated in the Construction Supervision and the Project Management, etc. as for the Company Projects, I participated as an Individual and as a Leader of a diverse (Multi-Discipline Multi

Nationalities) Team of Engineers.

- Further experiences :**
- Corporate Officer: Auditor of an extensive project design on behalf of potential equity participants.
 - Instrument & Control system Trainer & Mentor at National Consulting Center – Dubai / Part Time.
 - Stand down in case of emergency & accident.

- Field of experience :**
- Lead Design / Construction Engineer as Electrical & Instrumentation with extensive hands-on experience in the field of Oil and Gas facilities engineering from the preliminary studies, evaluation, Pre-FEED to FEED and Detailed Engineering, Construction, Commissioning stages for both Green and brown field major EPC & LSTK projects. Extensive hands-on experience involving the complete design/engineering of Instrumentation & Control systems (oil early and regular production facilities, gas handling/processing and sweetening facilities and influent water systems) as well as utilities and support systems (power, air, water, drains, Steam, F&G, ESD, Fire-fighting, etc.) for upstream oil fields, refineries and petrochemical plant Power, water and waste water plants with full consideration given to the EHS and QA/QC requirements.
 - Possess extensive experience in General engineering and Multi Project Management / Operations / Technical Support, Industrial Assets Management, Contract Admin, Claims Preparation, analysis and settlement, Strategic and Cost Estimation/Tendering and Project Controls.
 - Dual citizen, Qualified Engineer Registered in Canada, Kuwait, Saudi Arabia & Egypt.
 - **MULTI-FACETED ENGINEERING EXPERIENCES:**
More than 20 years of professional experience in Instrumentation and Electrical Engineering design, Construction, Maintenance, Project Study, Evaluation, Cost & Budget Estimation, Control System, Commissioning of major and multi-discipline projects in a variety of industrial environments, these being Oil & Gas, Refinery, Petrochemical, Power Generation, Power Transmission, Infrastructure Facilities in addition to Commercial, and Institutional Facilities such as:
 - Facilities / Plant Design / Engineering.
 - Instrumentation Engineering Details as Inst. Architecture block Diagram, PID, PFD, ILD, CAE, wiring diagram, Valve sizing, Orifice sizing, HAZOP Study,etc.
 - Electrical Engineering Details, as E1L, Power Cable routing, Size Calculation, E.SCADA & Schedule.....etc.
 - Project Detailed as E & I/C Engineering.
 - Field Construction Supervision Works.
 - Contract Strategy Preparation & Project Analysis.
 - Strategic Tendering Cost / Budget Estimation, Implementation Techniques & Budget Control.
 - Corrosion / Erosion Control Metallurgy.
 - Instrument / Mechanical Vibration Protection Balancing.
 - QA/QC in Engineering & Material.
 - Commissioning & Starting up for Instrumentation & Electrical

Construction Works Activities.