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| **Instrumentation Design Engineer - JITHESH.N.GOPAL** |
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| **PERMANENT ADDRESS****Naduvathoor House****P.O. Madayikonam, Thrissur,** **Kerala, India****Pin : 680712****Ph: +91480-2820344****Mob: +966591127423** **+9189435 51842****Whatsapp:+966591127423****Email:****jitheshngopal@gmail.com****PRESENT ADDRESS****NACEC (SOFCON)** **Al khobar****Saudi Arabia** **PERSONAL DETAILS:-****Sex : Male****Marital Status: Married****Passport No : M2503967****Date of Issue : 24.09.2014****Date of Expiry: 23.09.2024****License Details:****Have Oman/Saudi License (GCC Vaild).****License No : 96440691****Date of Issue : 27.11.2017****Date of Expiry : 27.11.2027****Languages : English, HindiKnown and Malayalam****KEY SKILLS*** **Self motivated, initiative, high level of energy.**
* **Accuracy and Attention to details.**
* **Problem analysis, use of judgment and ability to solve problems efficiently**
* **Tolerant to stressed situations.**

**EDUCATIONAL QUALIFICATIONS****Course:B.Tech in Electronics & Instrumentation Engineering****Duration : 4 years****University: CCS University****Year of Passing : 2004-2008****GPA; 66%****COMPUTER SKILLS*** **InstruCal( Instrumentation Calculations)**
* **Auto Cad**
* **Windows, Linux**
* **Microsoft Office**
* **SAP**
* **INtools( Basic)**
 | **PROFESSIONAL PROFILE**Enthusiastic and talented engineering graduate with strong background and experience in Engineering technologies looking for a new challenging job.Instrumentation Design Engineer having more than 12 years of experience in EPC and detailed Design and Engineering for Various projects in Oil &Gas, Petrochemical and refineries.**CAREER PROFILE****1.**Organization : **NACEC-Saudi Arabia** Period : July 2019 to Present Designation : Lead Instrumentation Design Engineer**2.**Organization : **Galfar Engineering & Contracting Company ( S.A.O.G) Muscat** Period : September 2013 to June 2019 Designation : Instrumentation Design Engineer**3.**Organization : **Chemtrols Industries Ltd**, **Goa,India** Period : August 2008 to May 2013 Designation : Instrumentation Design Engineer**ACHIVEMENT*** Received certification for “Designing Process Safety Barriers” from Petroleum Development of Oman (PDO).
* Certificate of appreciation from Petroleum Development Oman (PDO) for outstanding achievement and dedication for the completion of wells APO-11 and QA-124 in 2018.
* Certificate of appreciation from Petroleum Development Oman (PDO) for outstanding achievement and dedication for the completion of Delta V Panel upgrade for QAS hydrocarbon well during SD in fast track approach in 2018.
* H2S & SO2 Entry Permit for all Sites in Oman

**SYNOPSIS*** Well familiar with the preparation of Instrument 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 Materials, Block Diagrams, Instrument specifications, cable routing, Cause and Effect Diagrams, Loop Diagrams, Functional Logic Diagrams, Terminations Diagrams, Installation Hook-up Drawings, Instrument Plot Plans, Cable Tray/Trench Lay-outs, Cable Schedules, Installation detail drawings, Fire/Smoke Detection Lay-out and Alarm Lists.
* Sound Knowledge on Process control Instruments, Fire & Gas Monitoring Instruments, Gauges, Flow measuring instruments, Transmitters, Testing and Calibration of Instruments.
* Sound Knowledge in preparation of Instrument Specification and datasheets for Control Valves, On-Off Valves, Safety Valve, Flow Instruments, Pressure Instruments, Temperature Instruments, and Level Instruments, Remote Terminal Unit (RTU) Fire and Gas (F&G) systems and Safety related system (ESD).
* Participate in the technical evaluation of vendor bid offers. Direct and provide guidance in the Technical Bid Evaluations (TBE), review vendor drawings and documents. Supervise the review of design calculations, ensure vendor equipment specifications meet with client equipment specifications.
* Sound Knowledge on Shell, PRC, Saudi Aramco, International Instrumentation Construction Standards, Specifications & Quality Procedures.
* Participated in HAZOP / SIL review meeting. Implement safety instrument design as per HAZOP / SIL review reports and update P&ID and instrument structure design for the SIL requirements
* Calculation, Sizing and selection of field instrumentation (such as control valves, Flow Transmitters and flow devices)
* Well aware of Safe Work Permit Systems, Hazardous Area Classifications, Ingress Protection, Temperature Class.
* Sound knowledge in different types of Oil & High Pressure Gas Wells.
* Sound Knowledge in INtools(Smart Plant Instrumentation) & Instrumentation Calculations (InstruCal).

**EXPERIENCE**1. **NACEC(SOFCON)-Saudi Arabia**
* Responsibilities involve reviewing the Engineering packages outsourced to Engineering Consultants. Ensuring all the review comments is incorporated.
* Producing Following Engineering Design Deliverables : Instrument Specification Sheets, Wiring Diagrams, Interconnection & Schematic Diagrams, Block Diagrams, Cable Routing Drawings, Instrument Location Drawings, DCS I/O list, Instrument Installation Schedule, Instrument Loop Diagrams, Junction Box Details, Equipment Mounting Details, Hookup Drawings, Cable Sizing, Cable tray Sizing, Voltage drop Calculation, Material Take Off List (MTO) , Sizing of Orifice Plate, Control Valve Sizing, PRV Sizing, Sizing and selection of Flowmeters.
* Plan and Conduct Site visits.
* Review and checking of engineering deliverables produced by outside Engineering Consultants to ensure compliance to best engineering practices.
* Support engineering, procurement, construction and commissioning activities of DCS, ESD, F&G , field instruments to ensure compliance with project specifications and standards.
* Co-ordinate with other discipline Engineers to ensure efficient and smooth workflow.
* Attend engineering review meetings and studies viz. HAZOP, FAT, SAT etc
* Instrument procurement activities such as interaction with vendors, technical evaluation of bids and preparation of purchase recommendation and also shop floor inspection.
* Provide field engineering support during the construction phase as well as support & assist commissioning team.
* Build good relationship with vendors and service providers and work with the operations and maintenance teams.
* Prepare justifications, scope of work, man-hour estimates for design activities.
* Review and approval of Technical Submittals including revised design documents, Drawing Submittal, calculations, Material Submittal, Material Take off / BOQ, Specifications, Data Sheet etc. by construction contractors
* Complying with relevant PRC, Saudi Aramco and International Standards.
* **(Galfar Engineering & Contracting SAOG - Oman)**
* Designing and Engineering of Oil and Gas wells( ESP lifted Wells,Gas Lifted Wells,Water Injection Wells,Free Flowing Wells and Steam Injection Wells)
* Conduct Meetings with PDO for Design Review, IPF/HAZOP studies.
* Preparation and reviewing of Instrument drawings like Engineering datasheet, Wiring Diagrams, Hook-Ups, instrument location Drawing, JB layout, Cable Schedule, JB schedule, cable tray layout.
* Review and approve vendor documents for incorporation into the design and co-ordination with other disciplines. Provide the input to other disciplines, such as electrical consumption for electrical power supply design, weight and dimension for civil / architecture design and PEFS update for Process for Instrument details.
* Design of Instrumentation & Control system including interdisciplinary coordination with other engineering discipline such as process, electrical mechanical &Quality.
* Provide guidance to the Jr.Engineers& designers and ensures the Services are implemented within the established time and scope.
* Conduct site visit and timely interact with site persons.
* **( ChemtrolsIndustried Ltd -India)**
* Designing and engineering of on-line process applications based on petroleum refinery systems, Analyzer Shelters, Sample transport, conditioning and recovery, fast loop, utility supply and distribution, calibration services, and overall automation and interconnection with PLC and Customer DCS.
* Designing of Sample Handling Systems for process and stack applications in a process to derive conditioned sample for composition and concentration Analysis for the various Analyzer systems such as Gas Chromatograph, Liquid Analyzer, Gas Analyzers
* Analyzing the Project requirements, generating Technical Queries.
* Site visit and KOM with the Customer to clear out all the technical queries in one shot.
* Preparation of the Drawings and submitted to Customers/Consultant for Approval and Resubmit if any observation will be marked by customer/consultant.
* Preparation of Drawings for the in-house manufacturing.
* Interaction with vendors regarding the Specifications/Clarification of required material.
* Coordinating with various inspection agencies, preparation of Quality Assurance

Plan, Detailed Factory Acceptance test documents. * Project Engineering Design of the Power Distribution Panels, Instrument cable / JB - schedule,
* PLC programming of the system incorporating the safety logic and functional logics.
* Monitoring the Integration of the Project in the Shop Floor.
* Site visit for supervising the Erection Activities or providing proper site support to the Site Engineers wherever necessary.

**PROJECT EXECUTED****Company :NACEC (SOFCON)-Saudi Arabia****Role : Lead Instrumentation Design Engineer.*** Upgrade Steam & Waste gas control system at old flare,Petro Rabigh (2019)
* Installation of side stream filters at existing cooling water tower (CT-2), Petro Rabigh (2019)
* WWTP Gas Detectors Connection To DCS, Petro Rabigh(2019)
* Fog Detection system for Maaden Phosphate Plant ,Saudi Arabia(2019)

**Company :Galfar Engineering and Contracting ( SAOG ),Oman****Role : Instrumentation Design Engineer.*** Barik Gaslift Flowlines (2019 Ongoing)
* IRDC Skid Trial Scope (2019 Ongoing)
* Barik Gharif Oil Development Project(2018-ongoing)
* Hydrocarbon to Steam Injection Conversion Project(2018-ongoing)
* Salalah LPG Project (2018-ongoing)
* Rerouting of Hydrocarbon Wells Project (2018-ongoing)
* Annulus Transmitter Addition in Steam Injection Wells(2018)
* Raba Early Water Flood Project (2018-ongoing)
* Barik WI Phase 1 Project (2018-ongoing)
* Abu Thaliya Water Supply Well relocation project (2018)
* Shallow Water Disposal Well Project (2018)
* Conversion of Hydrocarbon to Steam Injection Well project (2017-2018)
* KGP Produced Water Removal & Disposal Project. (2016)
* Al Ghubar High Risk Sour Well Production ESP well project (2015)
* Oxygen Scavenger Injection Skid for MAZ8 & WSW1 project. (2014)
* Design of ESP well, Water Injection well, Free Flowing wells ,Hybrid Wells.(2013-2018)

**Company : Chemtrols industries ltd, India****Role : Instrumentation Design Engineer.*** Petrochemical Complex II at GAIL PATA, U.P (2011-2012)
* Dahej Petrochemical Complex (2011-2012)
* HMEL HSD Blending Automation System (2010-2011)
* Opal DFCU & Au Project,ONGC,India (2010-2011)
* Hydrogen Generation Plant, MRPL,India (2009-2010)
* Stack Analyser System For DCU Heater, MRPL,India (2008-2009)

**PERSONAL REFERENCE*** **Muniruddin.Mohammed** Sr. Instrumentation Design Engineer, NACE (Sofcon)

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