**Harsh Modi**

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***ENGINEERING PROFESSIONAL – INSTRUMENTATION & CONTROL***

*Aiming for assignments as* ***Senior Instrumentation Engineer / Senior Engineer – Control Systems*** *with a reputed organization preferably in the* ***EPC Companies, Petro-Chemical, Oil & Gas Refinery, and Resource & Energy***

*Proficiently delivered* ***Feasibility Studies, Front-End Engineering & Design (FEED), EPC, Commissioning, Operational and Technical services*** *to clients across O&G Refinery, Petrochemical, ASU, Cryogenics & Industrial Gases*

A seasoned professional with **over 7 years** of experience in **Design Engineering**,  **Instrumentation, Installation, Commissioning and Pre-commissioning of MEG & MEG - ASU**

Core Competencies

Detail Engineering

FAT / SAT

FEED / EPC

Vendor Management

Vendor Drawing Review

Technical Query Management

Technical Bid Evaluation

Commissioning & Pre-commissioning

Project Coordination

SIL Studies

International Standards

Compliance Adherence

**Stellar role in leading and coordinating the activities** of the **instrument section** to ensure the reliability of the instrument systems and their efficiency in the control, monitoring and measurement of the company's products and process facilities

**Recognized for playing a key in** performing installation, calibration, configuration, and preventive & corrective maintenance of various types of plant instruments in the **MEG & ASU plant**

**Exhibit excellence in sizing and selection of suitable instruments** based on application requirements. Knowledge of various types of instruments and their application limitation

Proficiency in using designing software like **Smart Plant Instrumentation, Flowel 4.0, Convel 10.0, and various third-party Software**

Adept in liaising with sub-contractors, vendors and clients; excellent analytical and inter-personal skills with proven ability in driving quality enhancement, process improvement and cost savings initiatives during the career span

PROFESSIONAL NARRATIVE

**Reliance Industries Limited | Since Jul’14**

Career Progression

Jul’14 to Jun’19: Instrument Manager – Plant: Mono-Ethylene Glycol (J3 – MEG) & AIR Separation Unit (J3-ASU)

Jun’19 to Present: Instrument Design Engineer

**Key Result Areas:**

* Successfully designing instrument deliverables like inline/offline instrument datasheet, Material Requisition (MRP, MRQ), Material Take-off (MTO), I/O Database like DCS, ESD, F&G, and MCMS
* Review and accomplish detailed engineering activities and engineering deliverables of assigned management of change (MOC), Mini-projects, and Detail Engineering Work Allocations (DEWAS)
* Preparing Instrument Index, Data Sheet, Wiring and Cable Schedule, JB Schedule, Alarm & Trip Schedule in Smart Plant Instrumentation
* Contributing in the preparation of IRP Drawing, Motor Coordination Drawing, Load Schedule, FF Segment Report, Block Diagram, Level Setting Diagram, Logic Diagram Modification, Control Room, PIB Layout, and MCT Layout Modification
* Contributing in the preparation of diagram, drawings, and layouts while ensuring the quality of designs
* Working on diverse procedures and standards to perform original design work and execute layouts
* Reviewing & approving instrument panel layouts for I/O, and field instrumentation; Participate in design standardization
* Identifying appropriate control system, handling enquiry specification preparation and selecting instruments based on type of application
* Collaborating with vendors and customers for various technical queries, reviews, and information as per project requirement
* Evaluation of vendor quotation and preparation of technical bid evaluation and sending priority of PO to buyer
* Managing complete process of commissioning and pre-commissioning activities in MEG & ASU plants
* Overseeing installation & commissioning as well as conducting & approving tests & inspections to ensure operational effectiveness of utilities; effectuating maintenance plans for machines and equipment
* Handling erection & commissioning of equipment and ensuring completion of project in minimum turnaround time effective resource utilization to maximize the output
* Supervising execution of preventive & corrective maintenance of equipment, including schedules / shutdown & slowdown maintenance to ensure trouble-free and seamless operations
* Responsible for the starting of plant, maintenance of plant Instruments breakdown analysis, enhanced reliability and instrument availability through root cause analysis
* Handling the process measurement, control instrumentation and services to monitor the operations
* Preparing various project reports for identifying areas of obstruction/defects, conducting troubleshooting, service and repair to rectify the equipment
* Generating purchase requisitions for materials & services, managing manpower & permits by using SAP MM & PM tools
* Coordination with team members to ensure efficiency in process operations and meeting of project targets
* PROJECTS HANDLED

**FCCU Feed Flexibility Project at DTA & SEZ Plant | The FFP Project will add flue gas desulphurization (FDG) unit for lowering the SOX & Particulate Emissions from the existing FCCs in the DTA & SEZ**

**CDU / SGCU Debottlenecking for processing higher L+N | In order to improve business margin 19% wt. L+N crude is required to process and that includes debottlenecking of CDU & SGCU**

**Reliability Improvement of C2 – MEG Plant | To Improve the reliability of the MEG plant by modifying the voting logic of the trip initiators from 1002 to 2002 or 2003 configuration and prevent spurious tripping**

* SOFTWARE & TECHNICAL PROFICIENCIES
* Smart Plant Instrumentation (SPI – 2016) for Instrument I/O database
* CONVAL 10.0, FLOWEL 4.1, Fisher Specification Manager, WIKA TW wake freq. cal for Instrument Sizing.
* Invensys Foxboro Evo, Control HMI by Wonderware for DCS
* Invensys Triconex TriStation MP3008 for ESD system
* GE Bently Nevada 3500 MCMS Rack Configuration for Machin Conditioning & Monitoring System
* Honeywell Safety Manager for F&G System
* Rockwell Automation Allen Bradley Control Logix 5000 & Siemens Simatic s7-400 for PLC system
* Exida for SIL verification
* MS Office (Excel, Word & PowerPoint)
* SAP for MM & PM
* EDUCATIONAL QUALIFICATIONS & CERTIFICATIONS

**BE Instrumentation and Control from Atmiya Institute of Technology & Science in 2014 with 7.94 CGPA**

**Licenses & Certifications**

Swagelok Installation Training – Swagelok

3500 Operation and Maintenance – GE

5009FT, Protech TPS, and EHPC Training – Woodward Inc.

**Personal Details**

Date of Birth: 20th October 1992

Languages Known: English, Hindi & Gujarati

Present Address: B-22.Sharnam-2, Near Dhananjay bungalows, Satellite, Ahmedabad -380015

Marital Status: Married

Passport No.: L7188656