

**PRAVEEN KUMAR. K**

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Al Wakrah, Qatar

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**Instrumentation Engineer with 15 years of experience (Oil & Gas Industry/ Petrochemical)**

Qualified and Certified Instrumentation Engineer with demonstrated excellence in Installation, Configuration, Calibration, Commissioning, Maintenance and troubleshooting of Field Instruments and control room equipment. Diagnosis and troubleshooting of system fault at site and Control room. Troubleshooting of plant problems, participates in failure analysis of critical control systems, identifying the root cause, provide necessary recommendations and corrective actions. Providing supervision over the execution of critical maintenance activities of the equipment and ensure that the problems are resolved with minimum down time.

**Key Expertise:** Installation, Configuration and Calibration of Instruments • Preventive and corrective Maintenance Activities • Troubleshooting, Maintenance of Field Instruments & Control system • Preparation of SOP/Method statement • Failure analysis of critical control system • Vendor Management Scheduling • Material Procurement • Replacement of Obsolete Instrumentation / Systems • Pre-Commissioning & Commissioning activities • Start-up & Shutdown Activities • Planning and Scheduling • Raising spare requirement • Loop Test & Functional Test • Hazardous Area Classification • Final documentation Activities • Team Building & Leadership • Knowledge of permit to Work system.

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**Education**

- **B.E, Electronics and Instrumentation Engineering** from Maharaja Engineering College, Avinashi Affiliated to Anna University, Tamil Nadu (2002 – 2006)
- **HSC** from Venkata Lakshmi Matric. Higher Secondary School Coimbatore (2000 – 2002)
- **S.S.L.C** from St. Joseph's Matric School, Coimbatore (1999 - 2000).

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**Professional Experience**

Company Name : **Qatar Engineering and Construction Company W.L.L.** On Contract with **QATALUM.**  
Duration : 8th June 2024 to Till date  
Designation : Engineer – Instrumentation  
Project : Qatalum

Company Name : **Al Jalhami Contracting & Trading Company, Al Khafji, Saudi Arabia.**  
Client : Al Khafji Joint Operations ( Saudi Aramco & Kuwait Gulf oil Company)  
Duration : 20th March 2023 to 18th Jan 2024  
Designation : Instrument Coordinator- Commissioning  
Project : 1) Upgrading Hout Onshore crude Facilities  
2) Hout Gas Facilities & Offshore Gas Facilities

Company Name : **Emerson Process Management**  
Duration : 25th Nov 2019 to 30th September 2022 ( 2 year and 11 months)  
Designation : Senior Instrument Engineer (Projects )  
Project : 1) CCR Cyclemax Project - BPCL – Kochi  
2) Indian Oil Corporation Limited (IOCL, Vizag)

Company Name : **Dodsal Engineering & Construction Pte. Ltd (EPC Company), Kuwait**  
Duration : 25th JAN 2017 to 6th July 2019 ( 2 Year and 5 months)  
Designation : Instrumentation Engineer  
Project : Effluent Water Treatment and Injection Plant, North Kuwait

Company Name : **KUWAIT OIL COMPANY** through Kharafi National, **Kuwait (Maintenance)**  
Duration : 11th OCT 2010 to 31st Jan 2016( 5 Years and 4 months)  
Designation : Instrumentation & Control Supervisor/Lead Instrument & Control Technician  
Project : KOC Maintenance – Crude Oil Gathering Centers

Company Name : **QATAR KENTZ** On Contract with **SHELL, Qatar**  
Duration : 25th MAY 2009 to 9th JUNE 2010( 1 year )  
Designation : Instrumentation Engineer  
Project : Pearl GTL Project

Company Name : **CHEMIN Control & Instrumentation Pvt Ltd**  
Duration : 4th Dec 2006 to 30th April 2009( 2 years and 5 months)  
Designation : Instrumentation Engineer  
Project : Manali Refinery Project

## Job Responsibilities

- Executed instrumentation project activities in line with the **project plans, defined project scope**, Company's standards and specifications, ensuring timely and quality delivery.
- Provide day-to-day support to the **Operation and Maintenance** to troubleshoot and fix instrument devices and systems at the Crude Plants, Gas Plants & Utilities.
- Lead **loop checking** and functional testing of control systems and field devices.
- Preparation and Review of **Method Statement** for all Instrumentation activities in accordance with approved international/National standards.
- Coordinates and the Provides technical advice for the implementation of **preventive and corrective maintenance programs** to ensure optimum facilities availability and reliability.
- Carried out **Workshop Bench Calibration** and Field Calibration of all the Field instruments in Aluminum Plant, Crude Oil Gathering Centers &, Effluent Water Treatment & Injection Project, Petrochemical Plant and Utilities
- Led the upgradation of the Instrument calibration laboratory to align with international standards, improving efficiency and compliance
- Involved during **START-UP** activities and **SHUT DOWN** activities of various units of Hout Crude, Hout Gas facilities, Crude Gathering Centers and Offshore Gas facilities understanding its start-up logics and interlocks.
- **Represent the organization** and enhance relationships in **dealings with clients, consultants and contractors**.
- Prepared and implemented laboratory processes in accordance with **ILAC Guidelines, ISO/IEC 17025, and IATF 16949** requirements to ensure audit readiness and quality assurance.
- Developed **Standard Operating Procedures (SOPs)** for calibration processes in adherence to global standards such as **OIML, ISO, IEC, EN, ASME**, and others.
- Conducted internal and external audits, including evaluating external service providers and contractors for compliance; compiled detailed audit reports and implemented corrective actions

- Good understanding and experience in **EPC Projects** requirement and multi discipline functions..
- Planning and allocating manpower resources for executing the different projects, proposals, time schedules and other specifications for execution of the work. Monitor man-hour costs and team schedules.
- Evaluating process changes and manage the change consequences in terms of Field Instrumentation specifications and reactions.
- Supported continuous improvement initiatives by identifying process gaps
- Implementing enhancements based on audit findings and international best practices
- Compile and maintain technical reports (*equipment history, failure, Alarm & Events, Sequence of Events (SOE), Trend, routine & Preventive Maintenance*).
- Experienced in troubleshooting of the plant instrumentation equipment/systems which includes distributed control system (DCS), Emergency shutdown system (ESD), Programmable logic controllers (PLC), Supervisory control and data acquisition (SCADA), Tank gauging systems, Sequencing and Shutdown Logic System (SSLS), Burner Management System (BMS), Condition Monitoring system(CMS), Control systems/instruments panels, Compressor Anti Surge Control Systems, Fire & Gas System(FGS), Bentley Nevada 3500 Vibration and Temperature monitoring system .
- Experienced in Organizing, coordinating and controlling the execution of the instrumentation works,. Directing site execution activities involving Erection & commissioning of local panels, instruments, and control room controllers, cabling, tubing, loop checks, etc.
- Collaborated closely with the procurement team to prioritize and expedite material procurement, ensuring availability of critical items for uninterrupted project execution.
- Review and understand all relevant documentation pertaining to the Project including scope of services, conditions of contract. Verify and ensure completeness of the scope of work associated with the project.
- Reviewed Bill of Materials (BoM) and supply P.O.s to verify technical specifications and quantity accuracy in line with project needs.
- Organize regular **project review meetings** to identify problems, issues, target dates or delays in execution of work to ensure timely project completion.
- To Provide technical clarification for the **procurement of Instrumentation equipment's, spare parts and project materials** as required.
- Involved in various **Pre-Commissioning and Commissioning** activities of units such as Siemens SALES Gas COMPRESSORS, Gas Turbines, Nitrogen Generator Package, Desalter/Dehydration Package, Hot Oil system Package, LP/HP Recovered Gas Compressor Package (KOBELCO), I/ A Compressor Package, LP/HP Flare Package, Chemical Injection Packages.
- Respond effectively to emergency fault conditions without assistance. Perform emergency field repairs, troubleshooting, Maintenance and Calibration of Instruments.
- Reviewed and approved engineering drawings/ documents like Hookup drawings, JB Interconnection drawings, Cable Block diagrams, Instrument & JB location layouts, Termination & Wiring diagrams, Instrument Cable Routing layouts, Cable Block Diagrams, Loop Diagrams, etc
- Review and preparation of Calibration Certificates, data sheets, Instrument Index, Input & Output Lists, Cable Schedules, Alarm Lists, Mark - Up P&ID and As- built drawings.
- Interpretation of technical drawings/ documents like General Arrangement (GA) drawings, Functional Logic Diagrams, material specifications, Instrument Plot Plans, Control Panel Drawings, Control/Equipment Room Lay-outs, Cable Tray/Trench Lay-outs, Control philosophy.
- Knowledge of hardware components, system architecture and standard methodology of configuration of project.
- To Co-ordinate with other disciplines such as Engineering, Procurement, Operations & interdisciplinary departments during all stages of the project.
- Accountable for the review and acceptance of calibration results for measuring and process instruments, ensuring accuracy and compliance with relevant standards.
- Selected appropriate **decision rules** for calibration based on the characteristics and criticality of instruments, adhering to ISO/IEC 17025 guidelines.
- Provide guidance and recommendations for the continuous improvement of company practices by adhering to global standards.
- Developed and maintained the internal calibration scope for the laboratory, outlining capabilities and limitations clearly for internal and external stakeholders.

- Performed calibration verification and capability verification to ensure the accuracy, reliability, and traceability of laboratory measurements aligning with International standard.
- Led training programs and competency assessments to ensure personnel met technical and quality requirements, supporting continual improvement and audit readiness.
- Prepared the competency matrix for laboratory personnel, aligning skills with assigned responsibilities.
- Ensured seamless coordination between **engineering, procurement, and execution teams to meet project milestones.**
- Involved in Testing and Commissioning of **HART** and **Foundation Fieldbus** Instruments. Installation, Configuration, Calibration, repair and maintenance of wide range of pneumatic ,hydraulic and electronic controlling instruments such as SMART transmitters for flow ,pressure, level & temperature measurement, control valves with pneumatic & smart valve positioners, emergency shutdown, blow down and motor operated valves, radar / ultrasonic type level transmitters, mass flow meters, all types of TC / RTD, flame scanners, vibration probes, converters, etc. and instrumentation associated
- Involved during START-UP activities and SHUT DOWN activities of various units such as MAN TURBO Condensate Recovery Units (CRU), CB Condensate Recovery Units, Separators, Gas Turbine, Compressors, De-salter Trains, Instrument Air Compressor (ATLAS CAPCO/ Allen-Bradley/ Control Logix), Turbines, Heaters, Blowers, Effluent Water units etc understanding its Startup Logics and interlocks
- Coordinated the issuance of contract close-out reports and ensured the complete handover of **final project documentation**, including drawings, catalogues, manuals, and certificates, in accordance with project and client requirements.
- Worked in systems of Emerson (DeltaV System), ICS Triplex, Allen Bradley / Control Logix, Siemens, ABB PLC, Delta PLC, Schneider PLC, Invensys(FOXBORO), GE Fanuc, HIMA Automation Device H51q and HONEYWELL
- Installation, Configuration and Commissioning of various Radar Level transmitters and Interface meters such as Rosemount Tank Radar Pro, Rosemount Guided wave Radar, Magnetrol Guided wave radar .
- Configuration, Calibration, Comparison and Report Generation of various Instruments using AMS Suite Intelligent Device Manager in Asset management system and carried out Partial stroke test for Emergency Shutdown valves.
- Investigates and examines reasons for equipment failures, conduct root cause analysis and take actions to eliminate or reduce failure rates.
- Testing, maintaining and modifying the existing system. Performing Functional tests and Tuning for various control loops.
- Knowledge of various communication protocols like **Modbus, TCP/IP, Profibus, Ethernet, OPC**, etc.
- Well versed with HSE or SHE, Knowledge in HIRA (Hazard Identification and Risk Analysis).
- Knowledge of working with permit system as an Permit To Work holder of QSGTL , ARAMCO and KOC. Very well versed HSE or SHE (Health, Safety and Environment) of Oil and Gas Company.

## Professional Development

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| • Honeywell Experion PKS (CEE)   | • Training underwent in 11 life critical activities in QSGTL |
| • Naviswork – 3D Model Software  | • Oil & Gas Safety Training                                  |
| • Delta V operate(Emerson)   | • Basic Health safety environment training in KOC.           |
| • Foxboro system(Invensys)   | • Hazards Identificationand Risk Analysis (HIRA)             |
| • MS Office  | • Human Machine Interface (HMI)                              |
| • Allen Bradley (Rockwell Automation)  | • Siemens PLC  |
| • HIMA Automation Device H51q  | • GE Fanuc PLC   |
| • ICS Triplex Trusted  |  |
| • Bently Nevada Vibration monitoring System  |  |
| • SCADA (Wonderware – INTOUCH)   |  |
| • Turbolog TMR(ESD)/ Turbolog Duplex-7(Oil,cooler,seal)/ Turbolog Duplex Smart (ASC) |  |

## Test Equipment Handled

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- H.A.R.T (475 Field communicator)
- Multi-Function Process Calibrators
- TK3e Wobulator
- FBT-6
- Druck- Portable Pressure Calibrators
- Multimeter
- Loop Calibrator
- Honeywell SFC
- Dewpoint meter
- Dead Weight Tester
- Hand pump & Test gauges
- Frequency Generator
- Meggar
- MilliAmp Simulator
- HART Communicator (ABB)
- Decade Resistance box

## Training/Certification/Membership

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- **BOSIET** (Basic Offshore Safety Induction & Emergency Training) – **OPITO** Course code 5700 Incl. HUET +EBS
- **Automation System Engineer** from IPCS ( An ISO 9001 Certified Automation Company)
- **Certification : Automation System Engineer - TUV Germany**
- **Kuwait Society of Engineers (KSE) - Membership**

## Personal Details

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- **Date of Birth** : 1<sup>st</sup>August 1984
- **Gender** : Male
- **Languages Known** : English, Tamil and Malayalam
- **Marital Status** : Married
- **Nationality** : Indian
- **Skype ID** : praveen.keie
- **Permanent Address** :Coimbatore, Tamil nadu, India
- **Current Address** : Al Wakrah, Qatar
- **Contact** : +974 39905780

I hereby ensure that all the information furnished above is true to the best of my Knowledge.

Station:

Date :

**(K. Praveen kumar)**