CURRICULAM VITAE

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Name	**JAYAKRISHNAN**
Profession	Instrumentation
Specialisation	Instrumentation Engineering
Current position	**Project Engineer – Instrumentation and Control**
Nationality	Indian
Age	35 Years

Key Work Experience:

A Dynamic Instrument Engineer with more than 10 years of experience in the field of instrumentation, in this period, I have covered the most aspect of a project life cycle from planning, execution construction through to testing, punch list clearing updating documentation and implementing the plan & coordination with client to acceptance of plant handover.

Educational Qualifications:

COURSE OF STUDY	INSTITUTION OF STUDY	EXAMINATION AUTHORITY	YEAR OF PASSING	%
Bachelor of Engineering (EIE)	Sapthagiri college of Engineering, Dharmapuri (Dist),Tamilnadu,India	Anna University	April 2007	65 %
Higher Secondary	St. Thomas Higher Secondary Kozhencherry,Kerala,India	Kerala State	April 2002	60 %
S.S.L.C	ST Thomas Higher Secondary , Kozhencherry,Kerala,India	State Board	April-2000	79.1 %

Professional Qualifications:

COURSE OF STUDY	INSTITUTION OF STUDY	EXAMINATION AUTHORITY	YEAR OF PASSING
Certified Automation Engineer	Prolific System and Technology Pvt Ltd	Gov. Of India ISO certified	Jan 2007
Advanced Diploma in Process Automation	School of Information and Instrumentation Technology	Directorate Of Technical Education Gov. Of Tamil Nadu	May 2017

Client Approvals as Instrument Engineer

- **Borouge Approved as Instrument Engineer Hyundai Engineering and Construction Company for Brg3 XLPE Project**
- **ADNOC Approved as Instrument Engineer Hyundai Engineering and Construction Company for SARB Field Development Project.**

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Career Summary:

Dec 2020-Still	Al Asab Est. General Transport & Contracting Company Instrument engineer
Oct 2018 – Oct 2019	OGM Engineering Enterprises India Instrumentation Engineer
July 2016 – Oct 2018	Hyundai Engineering And Construction Company Abu Dhabi Instrument Engineer
May 2013 – July 2016	Hyundai Engineering And Construction Company Abu Dhabi Instrument Engineer
June 2010 – Feb 2013	Keltron Controls India Instrument and Control Engineer
Dec 2009 – June 2010	Petals Innovative Machine Pvt Ltd India Instrument and Safety Engineer
May 2008 – Aug 2009	JK Instrumentation, India Electrical and Instrument Engineer
Feb 2007 – March 2008	Protech Engineers And Controls Junior Instrument Engineer

Professional Experience:

Project Name : EPC for Rumaitha Thamama Zone B Phase III Expansion Development & Conversion Of RA Phase I/II CO2 Affected Wells
Company : ADNOC Onshore
Contractor : Al Asab Est. General Transport & Contracting Company
Location : Rumaitha Thamama
Duration : Dec 2020 to Still.

Working as an **Instrument Engineer**

Roles & Responsibilities:

- Review company procedure, standards & specification, industry codes and relevant standard drawings for project implementation and before performing actual field inspections for acceptance of the work.
- Executing the construction activities in the Cluster type Production Well Head and WAG Well head as per the approved documents.
- Assisting the commissioning activities in the Well Head Control Panel and also controlling and monitoring the hydraulic tubing in the Christmas tree.
- Managing the construction activity as per the client standard and the project requirements as per the approved specifications.
- Review and endorsed the F & G system location layout and mapping as per the plant HSE and operational requirements
- Co-ordinating the installation of the process instrument like transmitter, choke valves, gauges and F & G system as per the location layout and GA drawings.
- Installation of the process and hydraulic tubing as per the approved Hook-Up.

- Supporting the commissioning activities of the WHCP.Installation and commissioning activities of all instruments and F&G systems in the WAG and production well.
- Executing the installation and commissioning activities of all instruments in water injection and gas injection manifold in the cluster WAG.

2) Project Name : Lube oil Refining Project
Company : AFEX Oil Refinery
Contractor : OGM Engineering Enterprises
Location : Umm al Quwain,UAE.
Duration : Oct 2018 to Oct 2019.

Worked as an **Instrument Engineer**

Roles & Responsibilities:

- Review company procedure, standards & specification, industry codes and relevant standard drawings for project implementation and before performing actual field inspections for acceptance of the work.
- Organize, monitor, report on assigned work scope.
- Responsible to prepare all instrumentation and F&G engineering deliverables such as design basis, specification, data sheets, instrument index, I/O schedule, logic diagram, cable / JB schedule, etc. Instrument Datasheets, Index and I/O list shall be prepared with design engineers.
- Work with DCS / PLC based system and Field Instrumentation. Familiar with PC based design software for sizing of instruments Preparation of requisition and procurement of instruments and control system.
- Review all relevant other discipline documentation and participate in the development of the P&IDs.
- Lead and contribute to activities that involve maintenance, improvement or redesign of the site safety Instrumentation & Control (I&C) functions.
- Responsible for assessing effectiveness of working practices and systems with a view to continuously improving systems, personal and team performance
- Provide assistance in the field during plant start-ups, shutdowns or upsets
- Provide troubleshooting assistance.
- Track, evaluate and report Refinery key performances indicators for the Equipment Class and analyse any improvement opportunities and also have to assist FAT and SAT.

3) Project Name : SARB Field Development Project.
Company : ADNOC
Contractor : Hyundai Engineering and Construction company
Location : Zirku Island Offshore, Abu Dhabi.
Duration : July- 2016 to Oct 2018.

Worked as an **Instrument Engineer**

Roles & Responsibilities

- Ensure that all C&I construction contractors' supervision and manpower are instructed in and comply with all aspects of Health, Safety, Environment and Security (HSES) policy, site regulations, permit to work procedures and instructions and Client requirements
- Ensure that C&I construction contractors working within the discipline, adhere strictly to the latest Approved for Construction (AFC) project drawings, Specifications, ITP's, Procedures and Site Instructions.
- Review relevant design work and in particular engineering Flow Diagrams with reference to assigned equipment, piping Layouts and Models with reference to assigned equipment

- Monitoring Instrument Installation Details, Instrument Location Plans, and control panels design.
- Collaborate with Engineering, Integration contractors or Vendor firms to develop control system architecture for programmable logic controllers (PLC), human machine interfaces (HMI) and Distributed Control Systems (DCS).
- Competent in conducting Offshore Site surveys of Instrument Systems (DCS/SIS/F&G) and Filed Instrumentation
- Contribute to all safety design processes including HAZAN, HAZOP, SIL Classification, and Safety Lifecycle.
- Responsible for all instrument and control system equipment regular maintenance and repairing, such as all field instrumentation, valves, flow meter, transmitter, control circuit, monitoring, DCS, PLC et
- Manage & Monitor all the Construction Materials flow including; All Process Transmitters & Installation and Calibration Accessories, SS Tubes, Flanges, Gaskets & all other fitting Accessories, Junction Boxes & Cable Glands, Speakers, Beacon for F&G Systems
- Monitor, Supervise & Raise Inspections for all the Instrumentation scope:-Primary & Secondary Cable pulling – Direct Buried / Above Ground / Indoor Cables, Panel, Cabinet & Console Installations, Impulse Tubing, Airline Tubing, Leak Testing & Steam Tracing, Cable Tray, Cable Ladder & Stub Up installation.
- Basic knowledge of power and power distribution, motor control, block diagrams, and variable frequency drives.
- Have good knowledge in IPS, F&G system, Fire alarm systems and mechanical packages.
- Have hand on experience in foundation fieldbus and HART instruments.
- Development of standards for Installation of Instrumentation and their accessories; including but not limited to: Pressure gauges, temperature gauges, level gauges, switches and transmitters, flow meters and switches, fire and gas detectors, automated valves, control valves, relief valves and regulators
- Installation of telecommunication system which includes switches, fiber optic cables and routers.
- Carryout installation of control valves, safety valves and flow elements like orifice, Instrument cable voltage drop & Intrinsically Safe circuit calculations.
- Control loop checking & reviewing with respect to P&ID for control system with DCS/ESD panel and checking the interlocking and trip logics of the process plant.
- Perform site acceptance test for instrument equipment's
- All Instrument Calibration Inspections
- Fiber Optic Cables & all related inspections including OTDR & Power Meter tests.

4) **Project Name : Borouge 3XLPE Project.**
Company : Borouge
Contractor : Hyundai Engineering And Construction company.
Location : Ruwais, Abu dhabi.
Duration : Feb 2013 to July 2016.

Worked as an **Instrument Engineer**

Roles & Responsibilities:

- Provide technical responses to instrument related inquires of the Client or project team
- Interact with the Project Manager, Engineers, Designers, Consultants, and Execution Team
- Participate in project meetings between engineering, project management project operations and clientperforms factory acceptance tests and site acceptance tests.
- Participates in commissioning and start-up activities, including; loop checking and calibration of instruments and analysers.
- Demonstrated a strong knowledge in installation of field instrumentation & controls including sensors, transmitters, final control elements, process control systems, communication protocols and wiring methods.
- Provide inputs and review detailed drawings such as location plans, cable routing layout, instrument/device installation, process / pneumatic hook-up, interconnection diagram, loop diagram, segment diagrams, wiring diagram, etc. prepared by instrument designers.

- Supervises the construction Progress of the following; Primary & Secondary Cable pulling – Direct Buried / Above Ground / Indoor Cables, Panel, Cabinet & Console Installations, Field Instrument, Control valves & Junction Box Installation. All Instrument Calibration Inspections, Impulse Tubing, Airline Tubing, Leak Testing & Steam Tracing, Cable Tray, Cable Ladder & Stub Up installation.
- Supervision of Installation, Termination & Commissioning of instruments with like temp. Sensors, pressure transmitters, flow meters, level transmitters, ON-OFF valves, control valves etc.
- Preparation / Checking of Engineering documents Databases (I/O, IRP, ESD / FGS Auxiliary Consoles) I/O assignments Graphics Cause and Effect Diagrams Alarm and Trip Schedules Control Narratives Loop Schematics UPS and Non-UPS Load List
- Experience in the installation of Safety Instrumented Systems, Fire & Gas systems, SIL verification calculations
- Familiarity with HAZOP, SIL Selection and F&G mapping Studies.
- Competent in design safety / environmental requirements and procedure

5) Project Name : KudamKulam Nuclear Power Project
Company : Nuclear Power Cooperation of India
Contractor : Keltron Controls
Location : **KanyaKumari Tamil Nadu**
Duration : Jan- 2011 to Feb-2013.

Worked as an **Instrument Commissioning Engineer**

Roles & Responsibilities:

- Carry out inspection of construction activities associated with Instrument installation.
- Scope of the Project includes inspection, Testing, supply, installation and Commissioning of Engineering Safety features and actuation system.
- Control system used TPTS-E APCS Siemens for the 1000MW nuclear power reactor.
- Charging each panel after insulation and offline check
- Contact the SAT along with the vendor which includes the logic check and signal check.
- Configuration check of digital and analog cards as the field requirement.
- Simulation check of each Analogue card after card calibration
- Set point check of analogue to digital converter modules
- Implementing and checking of two to three point logic check
- Coordinating the calibration and analyzing the transmitter output from field
- Installation of transmitter ,temperature elements and valve positioners
- Loop check of the process instruments from the ESAF room to the field
- Flow measurement of the process line using ultrasonic flow meters for high and low dimension pipe lines.
- Commissioning of the process valve as per the process requirement.
- Calibration of the DP transmitters and temperature elements.
- Valve stroke testing in the field.

6)__Project Name : MPGCL Thermal Power Project
Company : Madyapradesh Power Generation Cooperation of India.
Contractor : Ketron controls.
Location : Madya Pradesh, India.
Duration : Jun 2010 to Jun-2011.

Worked as an **Instrumentation Engineer**.

Roles & Responsibilities:

- Commissioning of HIACS 3000 control system for the 110 MW thermal power plants of phase 1&2.
- Contacting SAT and energizing the panel as
- Loading the logic program to the control unit and testing the process in auto mode and modifying the logic as per the field requirement.
- Checking and commissioning each loop in the presence of client and changing to auto contro
- Analyzing control loops and wiring Diagram, Commissioning and testing of control loops, Verifying design drawing and technical documents.
- Design and development of process system.
- Modifying the panel wiring as per the logic requirement
- Installation of the feedback pots for the control valves and On-Off shutdown valves
- Field calibration of process transmitters.
- Installation of the valve by confirming the flow direction. Installation of the transmitter and power up and loop check.
- Simulation of the process variables and do the functional test along with client.
- Responsible for suggesting improvements for process optimization in the area of work.
- Preparing shift activity reports, daily plant generation and gas consumption details.
- Preparing permits during shut down.
- Planning and effecting preventive maintenance schedules of various equipment's and instruments to increase machine up time and equipment reliability.
- Involved in solving the issues on technical defects and process design
- Identifying areas of obstruction / breakdowns and taking steps to rectify the equipment through application of troubleshooting tools.

7) Company : Petals Innovative Machine Pvt Ltd**:**
Location : Mumbai, India.
Duration : Aug-2009 to Jun-2010.

Worked as an **Electrical & Instrumentation Engineer.**

Roles & Responsibilities:

- Supervising cable laying, cable IR, continuity checking and JB installation. Cable glanding, termination.
- Logic Checking, Testing And Modification
- Machine Automation of medical ampoules and vial filling machine using ladder logics
- Modification and programming of new machine as per client requirement
- Monitor performance of the work
- Monitor overall progress of the projects against Schedule and milestones In charge of providing monthly progress.
- Provide support to Cost & Contract department

8). Company : JK Instrumentation.
Location : Kerala,India.
Duration : June-2008 to June-2009.

Worked as an **Instrumentation and Application Engineer**
Roles & Responsibilities:

- Installation of process control instrumentation of equipment's as per project design.
- Act as a coordinator between the company & Client
- Design of graphic display, loop drawing and wiring diagram
- Maintaining the manufacturing standard records
- Preparing the instrument specification list

9) ..Company : Protech Engineers And Controls.
Location : Maharashtra,India.
Duration : Feb-2007 to March-2008.

Worked as Junior Instrument Engineer

Roles & Responsibilities

- Calibration and maintenance of instruments like
- T-2600 ABB pressure Transmitters, Flow Transmitters,
- Temperature Transmitters, ABB-2600 Temperature Elements
- Rota meters, Pressure Control Valves, Flow Valves
- Maintaining CGPM calibration records

Computer Proficiency:

Proficient in Microsoft office, word, Excel, PowerPoint & Outlook

Personal Details:

- Present address : SS2Villa, 793, Room No:16, MBZ Zone 20,Abu Dhabi
- **Visa Status** **:Residence Visa**
- **Driving License** **: Light Vehicle**
- Date of Birth : 16.04.1985
- Sex : Male
- Marital Status : Married
- Nationality : Indian
- Languages Known : English (Fluent) Hindi (Fluent), Malayalam (Fluent) & Tamil (Conversational)
- Passport Number : P1199193
- Date of expiry : 20-10-2026
- Place of issue : Trivandrum, India