

Gaurav Dwivedi,

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Professional Brief

A competent and dynamic **Instrumentation & Process Control Systems** professional, with a successful career spanning **7 years**, with reputed Petrochemical & Gas Company.

Job objective

Intend to build a career with leading industrial environment with committed and dedicated people, which will help me to explore myself fully and realize my potential all over the world.

Profile snapshot

↵ A competent **Instrument maintenance Engineer** with **3.7 years** of experience in the field of **carbon black process**(Continental Carbon India Ltd.) and **15 MW power plant of three boiler**(60 TPH in WHRPP, 4.7 TPH in Carcass process& 10.5 TPH in Trade Process), Maintenance-instruments.

↵ **AM Instrumentation** with 3 years experience in **Air Liquide North India Pvt. Limited.**

↵ **Presently associated with CCIL as AM Instrumentation.**

↵ Working at **EMERSON & YOKOGAWA DCS.**

↵ **Work at Allen-Bradley (Micro Logix 1400 & 1000, SLC 500), HMI.**

↵ Knowledge of **SAP & ORACLE**

↵ A keen planner with expertise in managing Instruments testing & commissioning of Instruments equipment, and machinery thereby reducing breakdown/downtime & enhancing operational effectiveness of equipment.

↵ Well versed with preventive, predictive & break down maintenance practices on various static & rotary equipment like

Pressure Equipment, Solenoid valve, DP gauge, DP transmitter.

Temperature Equipment, Flow Equipment, Level Equipment

Actuator, control valve, On/Off valve etc.

↵ Knowledge of material selection for various applications as per required client.

↵ Proven abilities in managing technically advanced, cost-efficient and state of the art production systems.

↵ An effective communicator with excellent relationship management skills and strong analytical, leadership, decision making, problem solving & organizational abilities.

↵ Commissioning and decommissioning of all field instrument like pressure transmitter, temperature transmitter, flow transmitter, control valve, motorized valve, pH meter, conductivity meter etc.

Academic Qualification

- **B.Tech (Electronics and Instrumentation Engineering)**, GBTU, 2013 with 76 % aggregate.
- Senior Secondary, GIC, Pratapgarh, Uttar Pradesh, with 70 % aggregate.
- Secondary, GIC, Pratapgarh, Uttar Pradesh, with 72 % aggregate.

Profile Synopsis

- A technically adept professional knowledge and expertise instrumentation engineering applications, automation & controls solutions, technical evaluations and troubleshooting.
- Proficiency at grasping new technical concepts and implementing the same to improve equipment functioning and efficiency.
- Solid management capabilities with a consistent track record of anticipating consequences of new designs, initiating solutions intellectually and completing projects to specifications.
- Dependable and reliable in supporting and enabling team effort to produce genuine long-term sustainable development.
- Effective communicator with good interpersonal and team management skills.

Area of interest

Design and Application of DCS & PLC in Industrial Instrumentation and Process Control.

Technical Competencies

- Sound knowledge of Process Automation Technologies (DCS / PLC) fundamentals and applications
- PLC programming.
- Knowledge of Field Instruments and Transmitters
- Installation of all field instruments
- Testing & commissioning of new field instruments
- Troubleshooting of critical instruments, loop alarm & trip interlock system

Systems / Instruments Handled

- Systems: DCS Emerson Delta-V & Yokogawa Centum VP 3000 & VP 6.06.
- PLC: Allen Bradley Micro logix 1000,1400,SLC 500,
- Smart Transmitter Calibration using HART Protocol –275, 375,475, TREX.
- Flow : Mass Flow Meter (Emerson), Magnetic Flow Meter (Rosemount), Orifice with DPT (Emerson)
- Pressure: Gauge Pressure Transmitter, Absolute Pressure Transmitter, Vacuum Transmitter (Emerson).
- Temperature: RTD PT-100 (General Instrument), Thermocouple (Tempsens, General Instrument)
- Control Valve: Fisher, Mesto, Rotork.
- On-Off Type: Mesto (Single & Double Acting Ball valve)
- Field instruments: Thermocouples, RTD, Flow Transmitters, Pressure Transmitters, Temperature Transmitters, Control Valves etc. with the use of DCS (Distributed Control Systems), PLC (Programmable Logic Controllers).
- Worked on SAP & ORACLE for Daily routine procedure.

Nature of job and work experience

- Handling knowledge & troubleshooting of Emerson DCS Delta v version 7.3, 8.4 and 11.3 & Yokogawa Centum VP 3000 & VP 6.06.
- Handling knowledge & troubleshooting of PLC of Allen Bradley make SLC 500 PLC System.
- Knowledge of P & ID, Hook Up. Instruments installation & Layout drawings.
- Field instrument installation and termination as per Hook up drawing.
- Supervision on Erection activities like cabling, fabrication, installation & commissioning.
- Commissioning, calibration, testing & maintenance of various field instruments such as flow meters (like mass flow meters, vortex flow meters, Magnetic flow meters, orifice plates etc), level instruments (DP type, Read Switch, Guided wave radar, Level Gauges), pressure and temperature gauges/switches, analytical instruments, load cells, control valves, on-off valves, safety valves, etc like Fisher, Dembla, Rosemount, Honeywell, RK Control, Arca, Forbes Marshall, Samsung, Kent.
- Knowledge of day to day maintenance activities of Instrumentation systems & its implementation.
- Worked on CorelDraw engineering drawing software for design.
- Worked on SAP for Daily routine procedures.
- Trouble shooting and Loop checking and Panel wiring modification as per client requirement.

Document work (As per IMS)

- Maintaining Breakdown history of each Instrument
- Keeping updates record of Calibration Scheduled
- Making list of critical spares parts
- Keeping all record of preventive maintenance Scheduled & Checklist

Key Functional Areas

- Responsible for the overall engineering of Process Control Systems / Safety Shutdown Systems and related field instrumentation
- Responsible for maintaining the Instrumentation System & meeting the monthly preventive maintenance targets which include
 - ✓ Daily & monthly preventive maintenance planning.
 - ✓ Comparative study of process modification with the existing technology, with cost estimation & economic feasibility analysis.
 - ✓ Detailed analysis of DCS system and its modifications.
 - ✓ Managing Shut down and breakdown maintenance.
- Study requirements and list specifications needed, develop procurement recommendations
- Develop pre-commissioning procedures for field instruments for Process Control Systems
- Develop commissioning procedures for instrument and control systems
- Ensure and arrange on-site supervision on erection of field instruments

CAREER SUMMARY

Continental Carbon India limited, Ghaziabad (U.P.)

- **Executive Instrumentation from 24th March 2014 to 29th Sep 2017**

Air Liquide North India Pvt. Limited

- **A.M. Instrumentation From 3rd Oct 2017 to 15th October 2020**

Continental Carbon India limited, Ghaziabad (U.P.)

- AM Instrumentation from 22nd October 2020 to till date.

Responsibilities :

To provide necessary training to sub-ordinates for effective troubleshooting of problem.

To initiate the necessary action to achieve zero plant breakdown.

To improve team spirit to get optimum output from team members.

New project execution and planning.

Strength and skills

1. Comprehensive problem solving abilities & Ability to deal with people, willingness to learn.
2. Team facilitator, good communication skills adaptive.
3. Optimist, Extrovert, Innovative, Hardworking and Flexible in nature.
4. Ready to Travel anywhere in world.

Work Experience 7 years

- Continental Carbon India Ltd.
- Air Liquide North India Pvt. Limited

Training Undergone

Organization: **Continental Carbon India Ltd.**

Duration: 18th Jun 2012 to 18th July 2012

Title: Instrumentation and Process control system

Personal Dossier

Name: Gaurav Dwivedi

Date of Birth: 28-oct-1992

Father's name: S.C.Dubey

Mother Name: Maya Dubey

Languages Proficiency: Hindi, English.

Hobbies: Human Handling, Listening Music, Making Friends

Trait: Optimistic, Smart Worker as well as Hard worker.

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