# S PRADEEP KUMAR

2-104,Senthil nagar, Mettukadu,

Rasipuram,Namakkal E-mail: [pradeepkumar1987.s@gmail.com](mailto:pradeepkumar1987.s@gmail.com)

Tamil Nadu – 637408 Mobile: +91-8072397164

# Summary

Control and Instrumentation professional having 11 years of experience in commissioning, maintenance and troubleshooting of all Instrumentation and automation systems in process control, material handling, utilities and power plant. Seeking a challenging, dynamic career opportunity to further hone my professional skills and contributes towards the growth of the Organization.

Presently working with Vedanta Limited, Designation: Associate manager

# Technical skills:

* Programming, Configuring, commissioning and fault diagnosis, troubleshooting of DCS,PLC,SCADA,HMI
  + DCS : Foxboro Invensys I/A series 8.3, MaxDNA, Emerson Ovation
  + PLC : Allen Bradley – MicroLogix, CompactLogix, 1756 Control Logix, RSlogix500, RSlogix5000, Siemens simatic S7200, S7300, GE fanuc Proficy machine edition,.
  + SCADA: Factory talk view, RSview Studio, Wonderware, Cimplicity.
* Thorough knowledge of all power plant logics of Boiler SCS, Turbine SCS, Boiler- turbine CCS, DEH governing system, Turbine emergency trip system.
* Preparation and review of control philosophy, P&I diagrams, instruments schedule, datasheets, lists.
* Design and develop control system schematics, wiring diagrams and loop diagrams, control system architecture, communication protocols such as profibus, ethernet, controlNET, deviceNET. Modbus.
* Configuration, programming of machine monitoring systems like bently neveda
* Maintenance and service of hydraulic systems including directional control valves Proportional control valve and Servo valve.
* Installation, calibration and loop checking of all types of field instruments (Level, Pressure, RTD, Thermocouple).
* Configuration of Flow meters types of electromagnetic, ultrasonic, DP orifice plate, Coriolis mass flow meter, airfoils..
* Calibration and maintenance of pneumatic control valves positioner, motorized electric actuators.
* Configuration and implementation of Fire detection and alarm system for the entire process plant and Office buildings.
* Familiar with engineering standards ISA, IEEE, ASTM, NAMUR, ASME, ANSI, NEMA , IEC.
* Knowledge of safety instrumented systems (SIS), SIL levels and safety systems.
* PID tuning of process control loops & analysis.
* Preparation of maintenance and calibration schedule and ensure safety compliance.
* Procurement of all types of spares for instrumentation systems and maintaining of optimized inventory.
* IMS (QMS, EMS, OHSAS, Energy management system, Information security system) certified internal auditor and improving it effectiveness.
* Six sigma yellow belt holder and Quality circle team leader.
* Knowledge of SAP MM module.
* Implementation Cyber security standards in operational technology OT systems and interface of OT-IT systems.

# Professional Experience:

Organization: Vedanta Limited, Jharsuguda

Designation: Associate Manager

Experience: Aug 2009 – Nov 2016

Organization: Vedanta Limited, Tuticorin

Designation: Associate Manager

Experience: Dec 2016 – Till now

# Responsibilities:

* Leading an Instrumentation team of 15. Responsible for 100% availability of systems and day to day maintenance.
* Scheduling for preventive maintenance and calibration of instruments.
* Scheduling for annual overhauling and maintenance shutdown.
* Preparation of yearly budget for spares and services.
* Preparation of RCA for equipment tripping, service and repair of instruments, implementation of CAPA.
* Preparation of FMEA for all instruments and control systems.
* Documentation for IMS/Asset optimization and ensure compliance during audit.
* Preparation of risk assessment of jobs and implementing engineering controls.
* Interlock protection testing for all equipment.
* Trouble shooting, logic & graphics modification in PLC, DCS.
* Taking improvement initiatives like reducing auxiliary power consumption and improving automation of process.
* Identification of safety points, near miss reporting, implementing BBS.
* Implementation and maintaining of 5S in shop floor, work places.
* Taking improvement initiatives through Quality circle, Six sigma.
* Procurement of spares & maintaining optimized inventory.
* Handling and co-ordination with contractors, service providers for commissioning, maintenance and overhauling jobs.

# Achievements:

* Got ‘Par Excellence’ award in Kaizen competitions.
* Completed Six Sigma project of achieving Belt scale accuracy of <0.2% within six months.
* Got ‘CEO kitty’ award for project of auto pressure control valve in generator rotor cooling water thereby reducing energy consumption.
* Completed automation of Effluent Treatment Plant and installed and commissioned pH, conductivity, TDS, TSS analyzers.
* Executed a project for measuring Water-balance of plant by installing various types of flow meters from water inlet to ETP discharge.
* Failure reduction of Proportional control valves in Mill hydraulic system by doing proper RCA.
* Implementation of DCS logic for turbine governing system in speed control mode.
* Certified internal auditor for ISO 9001,14001,18001,27001 and completed the certification process.
* Implementation of Cyber security measures and system hardening for Operational technology OT systems.
* Automation of end to end weighment process of weigh bridge.

# Educational qualifications:

* B.E. - Electronics & Instrumentation Engg from Government college of Technology, Coimbatore with an aggregate of 81%.

# Personal Details:

* Nationality : Indian
* Sex : Male
* Date of Birth : 24.11.1987
* Marital Status : Married
* Passport No : H2740527
* Language Known : English, Tamil, Hindi
* Permanent Address : No 2-104, Senthil Nagar, Mettukadu,

Pattanam (PO), Rasipuram, Namakkal, Tamil Nadu - 637408

Place : Tuticorin

Date : Signature