



PAVENDAN R

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Tamil, English, Hindi

CAREER OBJECTIVE:

To get hold of a valuable position, in which I am given the chance to play a direct role in the limitless growth and achievement of solid organization.

EXPERIENCE:

INSTRUMENTATION & CONTROL

ENGINEER

6 YEARS & 2 MONTHS

- C&I Maintenance engineer in coal handling section in 4620 MW power plant ADANI POWER LTD., MUNDRA, GUJARAT. (Oct-2017 to Present)
- C&I Maintenance engineer in Coal & Ash handling section in 9*135 MW power plant VEDANTA LTD., JSG, ORISSA. (July-2014 to Aug-2017)
- Responsible for developing, managing & maintaining equipment which are used to monitor & control machine & process.

TECHNICAL SKILLS:

AUTOMATION SKILLS

PLC

- Sound knowledge of programming & maintenance of PLC Make Allenbradley control, compact, micro & flex logix controllers.
- Familiar with **AB 1756-** series I/O modules and **control logix** controller.
- Experience in Installing & configuring AB I/Os, controlnets, ethernet & redundancy module.
- Experience in AB plc firmware updation & Controller Migrations.
- Experienced in commissioning **AB Micro logic 1500** LSP series C controller and I/O modules.
- Knowledge in programming Siemens **simatic s7-300, s7-400** PLC and knowledge in I/O Interface IM modules and Profibus DPs.
- Familiar with RS logix 5000 & 500, Step 7 (PLC) softwares (Programmed PLC in **LD-Ladder** Logix, **FDB-** Function Block Diagram & **ST-** Structured Text).
- Knowledge in programming **GE PLC** (CPU 374) 90-30 series and versamax series plc using **Proficy Machine Edition** logic developer software.
- Familiar with ABB AC500 PLC & PS501 Control Builder based on **CoDeSys** logic developer software.
- Experienced in programming **Omron** Micro PLC using **CX one** software.
- Experienced in programming **Telemecanique** micro PLC using **Twido Suite** software.

SCADA/DCS/HMI

- Familiar with **Factory Talk, Vijeo citect, Cimplicity & King view** (SCADA &HMI) softwares (Graphics Development, Alarm & Trend configuration, SQL Data Logging). Knowledge in Global object and parameter passing in FT SCADA.
- Experience in Programing ABB HMI using **CP400** HMI Software and AB HMI using **Factory Talk-Mechine Edition** Software.
- Experience in developing Critical alarm audio buzzer annunciation system.
- Familiar with RS LINKS & OPC servers softwares for data acquisition from AB PLC.
- Essential knowledge in **LabView DCS** softwares.
- Knowledge in **MIMIC** Board development.

COMMUNICATION PROTOCOLS

- Knowledge in Configuring Wireless Communication, Experianced in Wireless LAN communication configuration **PROSOFT** Radio Links (**802.11 Industrial Hotspot**).
- Knowledge in communication protocols such as Controlnet, PS direct, ABCLX.
- Knowledge in Network configuration using Ethernet switch and optical converters.
- Experianced in IO list preparation, PLC power & communication diagram preparations.
- Knowledge in **Atmel microcontroller & KeilC programing**.
- Knowledge in communication troubleshooting in LAN networks, **AB controlnets & SIMPLEX ID-net**.
- Experience in Biometric device installations and LAN network configuration.

FIELD INSTRUMENTS KNOWLEDGE

- Knowledge in installation & servicing of Remote process handlings such as **level Transmitters (AB LM 200), PT 100** RTDs, Vibration transmitters(PRO makes), & Vertical, floating and capacitance level switches.
- Knowledge in installation of **MOVs (AUMA Makes)** for Multi-turn operations.
- Experianced in panel comissioning and wiring of PLC and MCC panels.
- Knowledge in calibrating conveyor **belt weighing**(Ramsey 2000 series), pressure& temperature gauges & switches, DP- Switches, Temperature switches and Density meters.
- Knowleded on Rexorth hydrolic **Proportional Valves, 2-way Directional Poppet valves, Single Axis Joystics** (Gessmann Make) & **SOVs**.
- Exposure in digital control applications for automation in the process plant(such as PID Temperature controllers, Vibration Monitering devices).
- Installed Wireless communication for dynamically positioning devices such as stacker/reclimber.
- Familiar with Metal deectors, Scoop Coupling and Linear Electical Actuator Motors.
- Commising experience in Safety devices such as PCS, BSS, ZSS and CBS.
- Knowledge in **Fire fighting system** (Deluge valves, FACP & ID-net devices such as smoke detectors, addressable modules, Relay modules, isolator modules, Manual pullstation).
- Knowledge on Instrumentation & electrical diagram.
- Well versed with panel wiring and troubleshooting.

PROJECTS HANDLED AS LEAD :

- Sequencing logic for conveyors (Group/Path sequence)
- Commissioned complete dry fog Pump House unit with PLC, SCADA control and field instruments such as level, flow and pressure transmitters .
- Commissioned vibration and temperature monitoring panels for motors and conveyor equipments protections.
- Commissioned various belt conveyor protection devices such as speed monitors, through cuts, load/tension travel monitors, tear and sway detectors, Metal detectors.,.
- Converted critical safety field instrumentation from single to triple redundancy(X of N logic).
- Emergency shutdown system (ESD) logic developed for PLC malfunctioning.
- Energy conserving logic for subordinates as well as main streams (**EnMS PROJECT**)
- Developed audio annunciation system for critical alarms.
- Logical interlocks developed main system with subordinates (Fire defender & dust handler)
- DTMF based security prototype with Home & mobile Automation. (Academic)

PERSONAL SUMMARY :

- Creative problem solving & troubleshooting skill.
- Excellent critical thinking & high level of numeracy
- Good communication & interpersonal skills
- Strong team work skill with an ability to motivate others & to lead/manage team & projects
- Flexibility & ability to compromise
- Willingness to accept responsibility & make decisions.
- Understanding ability to work with high—level computer technology
- Coordinating different language people in maintenance work
- Conducting various trainings to develop Second level employees technical skill
- Conducting toolbox talk before work to ensure workers safety and grievance talk to meet their needs
- Review works with senior management periodically

EDUCATION:

Coimbatore, Tamilnadu

Anna University

Fall 2009-2013

- BE in Instrumentation and control engineering, June-2013, GPA: 8.0
- HSS from state board of Tamilnadu, Apr-2008, 80%
- SSLC from Board of Matriculations, Apr-2006, 71%

PERSONAL INFORMATION:

DOB: 12-Apr-1992 | **Gender:** Male | **Passport:** In Hand | **Salary:** Negotiable | **willing to relocate:** Yes