

Siva M

MAINTENANCE-ELECTRICAL & AUTOMATION



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PROFESSIONAL SUMMARY

Dedicated Maintenance Engineer with 6+ years of hands-on experience in the electrical, automation, and maintenance. Skilled in maintaining high and low voltage systems, troubleshooting robotic and automated machinery, and implementing safety-focused engineering solutions. Strong background in PLC troubleshooting and modification, motor servicing, and conveyor system maintenance.

WORK EXPERIENCE

**Maintenance Technician | First Solar India Pvt Ltd-Solar
Module Manufacturing-Chennai**

Dec 2024 - Present

- Spearheaded preventive and breakdown maintenance on the automated production line, specializing in Packout-Robots And AGV,Auto Framing ,Laser,Coveyor systems,Laminator,glass Washer.
- Executed precise automated machine position teaching and camera calibration for accurate part detection, alignment, and repeatability across the production line.
- Conduct root cause analysis (RCA) for machine faults and implement corrective actions to prevent recurrence.
- Perform PLC troubleshooting and minor program modifications for automation systems (Mitsubishi,Delta).
- Provided expert troubleshooting for conveyor systems, and vacuum/pneumatic faults, minimizing operational downtime.
- Hands-on involvement in module size and wattage changeovers, ensuring the electrical and mechanical systems are quickly reconfigured for production versatility.
- Coordinate with the production and quality teams to minimize machine downtime and maintain output efficiency.
- Maintain daily breakdown and preventive maintenance reports, ensuring accurate documentation in CMMS,Oracple.
- Supervise maintenance technicians and support staff during major repair and overhauling activities.
- Support new machine installation, commissioning, and calibration as per OEM standards.

- Fault diagnosis and rectification of electrical, pneumatic, and automation systems
- Handled Machine shop and Assembly Shop breakdown maintenance, including emergency repair and diagnostics of automated production equipment, ensuring minimal disruption to the production line and meeting quality standards.
- Supporting the production team to achieve smooth machine operation and productivity

Maintenance Junior Engineer | Super Auto Forge Pvt Ltd

Jun 2022 - May 2024

Auto Part Manufacturing -Chennai

- Diagnosed and resolved mechanical, electrical, and software issues in CNC, VMC, and SPM Semi-Automated Assembly Machines.
- Fault diagnosis and rectification of electrical, pneumatic, and automation systems
- Handled Machine shop and Assembly Shop breakdown maintenance, including emergency repair and diagnostics of automated production equipment, ensuring minimal disruption to the production line and meeting quality standards.
- Supporting the production team to achieve smooth machine operation and productivity
- Handling HT/LT electrical systems, transformers, panels, breakers, and power distribution systems
- Monitoring utility equipment for smooth plant operation and minimum downtime

Diploma Trainee | Hyundai Motors India Pvt Ld,- Chennai

Feb 2019 - Nov 2021

- Supported preventive maintenance handling activities.
- Coordinated with production and maintenance teams for smooth line operation
- Followed industrial safety standards and 5S practices in manufacturing environment

KEY PROJECTS & ACHIEVEMENTS

- Foam Tape Wastage Reduction in Foam Spacer Machine
- Modified the laser sensor sensing range to improve foam tape usage efficiency
 - Achieved a reduction in foam tape wastage and improved machine productivity

- Pick and place Sensor Fault Troubleshooting Improvement.
- nstalled fused LED indication terminal blocks for easy sensor fault detection
 - Reduced troubleshooting time and improved MTTR during cable short-circuit conditions

TECHNICAL SKILLS

- ♦ Robots and automation equipment maintenance, conveyor Pnumatic and hydraulic systems.
- ♦ Industry 4.0 Solar module manufacturing breakdown maintenance
- ♦ PLC Troubleshooting,VFD

SOFT SKILLS

- ♦ Critical Thinking
- ♦ Time Management
- ♦ Problem Solving
- ♦ Active Listening
- ♦ Efficiency Under Pressure
- ♦ Team Collaboration
- ♦

EDUCATION

Diploma in Electrical and Electronics Engineering
Merit Polytechnic College, Tirunelveli

2014 - 2017

AWARDS

Project - Merit Polytechnic College Int, Tirunelveli

Project: **Windmill Yaw Position Control System**

- ♦ Developed automatic yaw positioning system for wind turbine directional control using sensors and motor automation techniques.