VIGNESH M

PLC Programmer & Electrical Engineer

+91 7358687304 | vigneshm28802@gmail.com | www.linkedin.com/in/contact-vignesh-m/

SUMMARY

Electrical and Electronics Engineering graduate with knowledge in **PLC programming (Delta), HMI, and SCADA systems**. Trained in automation basics, troubleshooting, and control system operations. Eager to learn and apply skills in industrial automation to grow with a dynamic team.

SKILLS

1. AUTOMATION & PROGRAMMING:
   - PLC Programming for Delta (ISP, WPL), Omron (CX PROGRAMMER), Allen Bradley (RS Logix 1000), Mitsubishi (GX works 3)
   - HMI Programming
   - Ladder Logic programming
2. Testing & Quality Tools:
   - 7 QC Tools
   - PPAP, PPM Analysis
   - Drive Testing, HV/LV Testing
3. SOFT SKILLS:
   - PLC developer, Electrical Maintenance, Production planning, Team co-ordination, Problem solving.

PROJECTS

- Mul-Port Converter for Hybrid Electric Vehicles

  Designed and developed a multi-port converter for solar-powered automobiles to boost output voltage with reduced loss, enhancing circuit efficiency.
- SEWAGE ROBOT

  Created a robotic solution for blockage clearance using high-pressure jets and automated control with water-resistant embedded systems.

PROJECTS based on PLC Ladder logic Programming

- Industrial Feeder , Industrial mixer & boiler
- Automatic water overflow controller , Automatic traffic signal

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EDUCATION:

R.M.K. Engineering College

- B.E-Electrical and Electronics Engineering|2021 – 2024|CGPA - 7.86

Sri Nallalaghu Nadar Polytechnic College

- Diploma in Electrical and Electronics Engineering|2018 – 2020|Percentage- 83%

INTERNSHIPS:

- Schneider Electric (Duration- 90 Days Production Department)
- Southern railways- ICF (Duration- 14 Days)
- Vishnupriya Paper Mill Private Limited (Duration- 14 days)

WORK EXPERIENCE

Blue Star (Graduate Apprentice Training)

Testing Engineer& Quality Assurance | July 2024 - July2025 | Tada, Andhra pradesh

- Applied Pareto analysis to improve first-pass yield by 15% in AC units.
- Conducted performance testing of outdoor units (ODUs) under extreme conditions (50°C), ensuring full compliance with operational specs.
- Automated test reporting processes, reducing manual errors by 20%.
- Utilized cause-and-effect (Fishbone) analysis to systematically identify process gaps and implement solutions, enhancing product reliability.
- Performed monthly reporting and defect analysis, leveraging control charts to monitor process stability and reduce recurring issues.

ACHIEVEMENTS & CERTIFICATES:

- Non-Conventional Energy Resources (NPTEL) t
- TOEFL IBT Certified
- Intra-College Paper Presentation (2022)
- Inter-College Paper Presentation (2019)

AREA OF INTEREST:

- Protection and Switchgear, Sensors and Transducers, Analog and Digital Signals,Renewable Energy Solutions, Field Services

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LANGUAGES:

- English, Tamil, Telugu (Basic Speaking & Understanding), Japanese (Basic Reading, started N5)