

SRI RAMYA TANGIRALA

West Virginia, United States | Open to relocate

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ELECTRICAL / CONTROLS / SCADA ENGINEER

Electrical/Controls Engineer with experience delivering NEC-compliant control panels and water/wastewater automation systems from design through commissioning. Built 45 field-ready panels across 10 projects and reduced field installation time by 60% by standardizing technician-first schematics, panel layouts, labeling, and documentation. Hands-on with VFD motor control (7.5–30 HP) instrumentation wiring (4–20 mA, 0–24 V), radio/cellular telemetry, and commissioning deliverables (FAT/SAT and reports).

SKILLS

- **Controls & Power:** NEC-compliant panel design, motor control/VFDs (7.5–30 HP), 120VAC / 24VDC / 12VDC control power, relays, protection, grounding basics
- **Instrumentation & Field Devices:** level/pressure/flow sensors, 4–20 mA, 0–24 V signals, float switches, HOA switches, surge protection
- **Automation & Integration:** water/wastewater automation, telemetry/SCADA integration, Siemens/Schneider equipment integration, commissioning support
- **Protocols/Comms:** Ethernet/IP, RS-485, radio/cellular telemetry
- **Design & Documentation:** schematics, wiring diagrams, I/O maps, panel layout drawings, wire labels/termination schedules, BOM ownership, NEMA enclosure considerations
- **Commissioning:** FAT/SAT checklists, lab integration testing, troubleshooting/root-cause analysis, commissioning reports
- **Tools:** Rhino 3D, Altium, MATLAB/Simulink, AutoCAD (working knowledge)

WORK EXPERIENCE

Extreme Endeavors - Electrical Engineer and Project Coordinator

08/2024 – 01/2026

Philippi, West Virginia, USA

- Delivered 45 NEC-compliant control panels across 10 municipal water and wastewater projects, producing schematics, wiring diagrams, I/O maps, and panel layout drawings with clear labeling for fast installs.
- Managed 10 concurrent projects and led a 6-person cross functional team, serving as the primary client point of contact for requirements, scope, and progress updates.
- Created 5 project designs for proposal development and supported scope changes that secured \$120K to \$130K in approved change orders.
- Cut field installation time 60% by standardizing panel layout rules, wire labeling and termination schedules, and technician friendly installation documentation.
- Integrated radio and cellular telemetry for remote monitoring and supported SCADA and telemetry integration, validating communications and wiring using Ethernet/IP and RS-485 when applicable.
- Wired and validated instrumentation and controls including level, pressure, and flow sensors, 4 to 20 mA loops, 0 to 24 V signals, float switches, HOA switches, surge protection, and control power distribution.
- Supported motor control solutions using VFDs from 7.5 to 30 HP, verifying associated control circuits during lab testing and field commissioning.
- Wrote site specific FAT and SAT checklists, completed commissioning reports, and ran full lab integration tests prior to deployment to reduce on site troubleshooting.
- Owned BOM coordination and procurement alignment to meet fabrication schedules, working closely with software, technicians, and inventory to keep builds moving.
- Launched a vibration-based fault detection device for high voltage pump systems. Gen2 improved diagnostic fidelity by 48.56% over Gen1 and extended fault detection lead time.
- Improved operational efficiency 40% using Value Stream Mapping and workflow standardization across documentation and handoffs.

Cleveland State University - Peer Advisor and Graduate assistant

09/2022 – 05/2024

Cleveland, Ohio, United States

- Mentored EE students on technical/career planning. Achieved 86% top-rating feedback and supported advising outcomes leading to a 100% scholarship

Capgemini India - Software Engineer

10/2021 – 08/2022

Hyderabad, Telangana, India

- Supported cloud application releases for ANZ. Improved issue-resolution efficiency to 75% via automation scripts and structured team communication.

Whitehat Jr - Programming Instructor

09/2020 – 09/2021

Hyderabad, Telangana, India

- Delivered beginner-friendly programming instruction (HTML/CSS/JavaScript), adapting lessons to different skill levels.

EDUCATION

Cleveland State University – MS., Electrical Engineering | OH, USA

08/2022 - 05/2024

CMR Engineering College – B.Tech., Electronics & Communication Engineering | Telangana, IN

08/2015 - 05/2019