

Surendiran G

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Professional Summary

Electrical & Instrumentation Maintenance Engineer with hands-on experience in **biopharmaceutical and food manufacturing environments**. Proven expertise in **QMS documentation, GMP/ISO compliance, preventive maintenance planning, and plant utilities management**. Strong background in **PLC-based automation, VFD drives, calibration, and troubleshooting** of critical process equipment. Adept at ensuring **high equipment uptime, safety compliance, and continuous improvement** through systematic maintenance strategies and technical leadership.

Core Competencies

- QMS Documentation & SOP Preparation (GMP / ISO)
- **Preventive & Predictive Maintenance Planning (PM Planner)**
- **Electrical & Instrumentation Maintenance**
- **PLC & Automation Systems (Siemens PLC – TIA Portal)**
- **VFD Drives** (Danfoss, Allen Bradley, Siemens, Delta)
- Calibration & Validation (Temperature, Pressure, Level, Flow, Conductivity, Weighing Scales, Metal Detectors, Turbidity)
- Utilities & Facility Management (Boilers, Chillers, HVAC, RO, ETP, STP, Air Compressors, DM Water Plant, Softener Systems)
- Fire & Safety Systems | Lockout–Tagout (LOTO)
- Environmental & Regulatory Compliance (MPCB, Hazardous Waste Management)
- SAP Maintenance & Inventory Management
- Root Cause Analysis & Troubleshooting
- Team Supervision & Technical Training
- Safety Reporting & Risk

Certifications

- **Electrical B-License**
- HDCT (Honest Diploma in Computer Teacher)

Professional Experience

Hatsun Agro Product Ltd – Daily Product Company

OFFICER- INSTRUMENTATION | (Oct-2025) – Till Now

- Hands-on experience with different types of **solenoid valves, pneumatic control valves, and actuators** used in industrial automation systems.
- Analyzed and resolved faults in process automation and **dairy plant machinery, Evaporators, Dryer, separators, bactofuge, pasteurizers, and associated control systems.**
- Managed spare **parts inventory using SAP** and handled procurement of plant-related materials.
- **Managed end-to-end electrical and instrumentation maintenance** for the entire plant, ensuring high operational uptime.
- Executed **installation, configuration, calibration, and troubleshooting of VFD drives, sensors, transmitters, and control valves.**
- Calibration (**Temperature, Pressure, Level, Flow, Conductivity, Metal Detector, Turbidity, Weighing Scales**), Control Valves, Sensors, Transmitters.
- **Maintained full compliance with GMP (Good Manufacturing Practices) and food safety standards** in all maintenance and documentation processes.
- Optimized instrument performance through **regular calibration, reducing potential failures** and ensuring accurate process control.
- Handled inventory **management in SAP, performing stock adjustments, internal transfers, and physical inventory** to maintain accurate store stock levels.
- Skilled in programming and configuring **Siemens PLC using TIA Portal v17**, with strong knowledge of **relay logic systems.**
- Experienced in **wiring and modifying PLC I/O modules**, including **DO/DI and AO/AI** signal mapping.
- Executed **installation, configuration and commissioning** of **VFD drives** from **Danfoss, Allen Bradley (Power Flex), Siemens, and Delta DVP** series for various industrial applications.

Bio Genomics Ltd. – Biopharmaceutical Company

JUNIOR EXECUTIVE- ELECTRICAL | (2024 – 2025)

- Lead maintenance of **three-phase electrical systems**, **motors**, **control circuits**, **relays**, **sensors**, and **packing equipment**.
- Installed, repaired, and maintained **electrical panels**, **wiring**, and **lighting fixtures** ensuring uninterrupted operations.
- Prepared and updated **QMS documentation and SOPs** in line with **GMP/ISO standards**.
- Developed and executed **preventive maintenance schedules (PM Planner)** to reduce downtime and improve equipment reliability.
- Monitored and maintained **diesel boilers**, **chillers**, **HVAC systems**, and managed **power changeovers (EB/DG)**.
- Performed periodic maintenance and testing of **transformers and generators** ensuring statutory compliance.
- Supervised electrical technicians in installation, maintenance, and troubleshooting activities.

Water & Utility Systems Management :

- Operated and maintained **RO plants**, **water softeners**, **filtration systems**, and **high-pressure pump systems**.
- Implemented **safety protocols** and conducted inspections of pumps, motors, and valves to improve efficiency.
- Managed **ETP/STP operations**, ensuring **zero liquid discharge compliance** & optimal resource utilization (water, energy, chemicals).
- Ensured **pollution control compliance**, hazardous water disposal, incineration and statutory reporting under **Water Act 1974**, **Air Act 1981**, and **Hazardous Water Rules 1989**.
- Coordinated with **MPCB** for consent renewals, environmental statements, and monthly statutory returns.
- Initiated green practices, including recycling treated water for cooling towers, gardens, and toilets, and increased plant green cover.

GT Electronics India Pvt. Ltd.

PRODUCTION INSPECTOR | (2021 – 2024)

- Ensured compliance with **quality**, **ESD**, and **safety standards** (5S, material handling).
- Monitored and inspected **electronic assemblies**, **chemical handling**, **epoxy potting**, and **curing ovens**.
- Operated and maintained **chemical mixing machines**, **potting machines**, and **curing ovens**.
- Implemented **corrective actions** to reduce deviations, improving product reliability and process consistency.
- Documented and followed **standard operating procedures (SOPs)** for potting and chemical handling.

Apprenticeship Training (NLC India Ltd. - Neyveli Lignite Corporation)

WIREMAN APPRENTICE | (2017 – 2018)

- Successfully completed one-year **Government Act Apprenticeship** after ITI (Wireman) under statutory norms.
- Gained practical exposure to **electrical maintenance, industrial power systems**, motors, panels, cabling, and plant utilities.
- Assisted in routine **maintenance, fault identification**, and basic **troubleshooting of electrical equipment in a large-scale industrial plant**.

Education

Degree / Examination	College / Institute	Year of Passing	Percentage
B.Tech in Electrical & Electronics Engineering	Sri Ganesh Engg. & Tech, Pondicherry University	2024	78.2%
Diploma in Electrical & Electronics Engineering	Sri Manakular Vinayagar Polytechnic College	2020	87%
ITI (Wireman)	RK ITI, Cuddalore	2016	83.7%

Languages

- Tamil | English | Hindi

Location :

Date :

[Surendiran G]