

PROFESSIONAL PROFILE

Facilities maintenance and reliability engineer with 20+ years of experience protecting production continuity, utility availability, and critical factory assets. Combines electrical and facilities engineering with practical digital solutions to shift maintenance from reactive firefighting toward visible, standardized, and actionable workflows. Focuses on reducing downtime risk, controlling lifecycle cost, improving response speed, and preserving technical knowledge through BMS/SCADA, Industrial IoT, digital checklists, and structured root cause analysis.

BUSINESS VALUE & CORE COMPETENCIES

Production Reliability & Downtime Control
Preventive/predictive maintenance, RCA, criticality-based planning, faster fault isolation and corrective-action follow-up

Facility Stability & Compliance
BMS/SCADA, HVAC-cleanroom control, ventilation/exhaust, wastewater treatment, safety and environmental compliance

Utility Availability & Asset Protection
LV/MV power, transformers, UPS, generators, ATS, solar plant, emergency readiness and lifecycle cost control

Digital Transformation & Knowledge Transfer
Industrial IoT, actionable alarms, digital checklists, dashboards, AutoCAD and standardized troubleshooting workflows

SELECTED VALUE-DRIVEN ENGINEERING INITIATIVES

- **Faster Alarm Response & Downtime Risk Reduction:** Designed a Factory Alarm Response System that connects existing Modbus devices to Node-RED, MQTT, SCADA, mobile notification, alarm history, recovery logic, and reusable troubleshooting checklists - helping technicians identify the right inspection path sooner instead of relying on trial-and-error diagnosis.
- **Maintenance Visibility & Management Control:** Developed a Maintenance KPI web application with role-based access, audit trails, targets, dashboards, and automated reporting - turning scattered maintenance records into structured information for review, follow-up, and decision-making.
- **Knowledge Transfer & Sustainable Workflows:** Architected a Mini CMMS / Alarm Response Assistant prototype that converts experienced engineers' troubleshooting logic into digital work orders, supervisor review, and standardized response checklists - reducing dependence on individual experience and supporting consistent work across shifts.

PROFESSIONAL EXPERIENCE

Jul 2022 - Present

Facility Maintenance Engineer
ASIA MAGNETIC WINDING CO., LTD.

- Protect production continuity by managing reliability of electrical distribution, utilities, HVAC, cleanroom environmental control, and production-support systems.
- Maintain readiness of LV/MV systems, transformers, UPS, generators, ATS, solar plant, and emergency power to reduce operational and safety risk.
- Lead preventive/predictive maintenance, troubleshooting, root cause analysis, and corrective-action follow-up to prevent recurring failures.
- Improve maintenance visibility through BMS/SCADA monitoring, structured records, AutoCAD facility drawings, and practical Industrial IoT tools.
- Support energy optimization, wastewater and ventilation compliance, and cost-conscious improvement projects using existing factory assets where practical.

Dec 2015 - Oct 2021

Electrical Section Chief
ETERNAL RESIN CO., LTD.

- Led electrical maintenance and reliability activities for production machinery, plant equipment, and power systems.

- Prioritized breakdown response, manpower, preventive maintenance, and corrective actions to restore production safely and minimize disruption.
- Strengthened operational control through systematic fault diagnosis, energy management, safety practices, and management-system compliance.

Mar 2014 - Jul 2015

Maintenance Engineer

OBRIST (THAILAND) CO., LTD.

Planned and maintained machines, production equipment, and utility systems; supported breakdown response and preventive maintenance.

Dec 2012 - Mar 2014

Electrical Engineer

LAMSOON (THAILAND) PUBLIC CO., LTD.

Managed electrical machinery, power distribution, preventive maintenance, and plant electrical reliability.

EARLIER EXPERIENCE

Oct 2011 - Nov 2012

Electrical Engineer

RIANTHAI INTERPLAS CO., LTD.

Supervised electrical machine maintenance, troubleshooting, and system reliability.

Jun 2011 - Sep 2011

Electrical Engineer

AKKHIE PRAKARN CO., LTD.

Maintained site electrical systems and equipment and supported corrective maintenance activities.

Mar 2004 - Jun 2011

Technician

PERFECT COMPANION GROUP CO., LTD.

Performed preventive maintenance, troubleshooting, and repair of electrical machines, equipment, and plant electrical systems.

TECHNOLOGY & ENGINEERING CAPABILITIES

- Production continuity: critical utilities, facility systems, breakdown response, reliability improvement and downtime-risk control
- Asset and cost protection: LV/MV distribution, transformers, UPS, generators, ATS, solar plant and lifecycle-focused maintenance
- Maintenance strategy: preventive/predictive maintenance, RCA, corrective action, planning, prioritization and energy cost reduction
- Digital operations: BMS/SCADA, Node-RED, MQTT, Modbus RTU/TCP, Raspberry Pi/CM5, Supabase, dashboards and actionable checklists
- Facility engineering: HVAC/cleanroom control, ventilation/exhaust, wastewater treatment, environmental compliance and AutoCAD layouts
- Rapid problem solving: PLCs, calibration, Linux, Docker, Git, n8n, Cloudflare, microcontrollers and AI-assisted prototyping

EDUCATION

1999 - 2002

Bachelor of Engineering - Electrical Engineering (Telecommunication)

RAJAMANGALA INSTITUTE OF TECHNOLOGY, PATHUM THANI

1997 - 1999

High Vocational Certificate

RAJAMANGALA INSTITUTE OF TECHNOLOGY, TAK CAMPUS

LICENSES & CERTIFICATIONS

- Wastewater Treatment System Operator License (2024-Present); Industrial Instrument Calibration Technician (2014-Present)
- Person Responsible for Energy - Factory (2014-Present); Safety Officer; FSSC 22000; ISO 9001/14001; OHSAS 18001