



AHMAD FARIS PUTRA PERDANA

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PROFESSIONAL SUMMARY

Electrical Control, Instrumentation, and Maintenance Engineer with more than 5 years of experience in industrial automation, reliability engineering, preventive and predictive maintenance, PLC programming, SCADA implementation, and engineering leadership. Proven ability to lead teams of 20 technicians, manage over 500 industrial assets, reduce equipment downtime by 25%, and successfully deliver 10 engineering improvement projects. Strong expertise in Total Productive Maintenance (TPM), Root Cause Analysis (RCA), Failure Mode and Effects Analysis (FMEA), Industrial IoT, commissioning, and continuous improvement initiatives. Currently pursuing a Master of Engineering in Industrial Engineering to strengthen competencies in strategic maintenance management, operational excellence, and Industry 4.0 transformation.

EDUCATION

BINUS University

Master of Engineering (M.Eng.) – Industrial Engineering
2025 – Present

Universitas Mercu Buana

Bachelor of Engineering (B.Eng.) – Electrical Engineering
2023 – 2024

Astra Polytechnic

Associate Degree – Mechatronics, Robotics, Automation & IoT Engineering
2019 – 2022

CORE COMPETENCIES

- Maintenance Management
- Reliability Engineering
- Preventive Maintenance (PM)
- Predictive Maintenance (PdM)
- Corrective Maintenance (CM)
- Total Productive Maintenance (TPM)
- Reliability Centered Maintenance (RCM)
- Root Cause Analysis (RCA)
- Failure Mode and Effects Analysis (FMEA)
- Overall Equipment Effectiveness (OEE)
- Lean Manufacturing
- Kaizen & Continuous Improvement
- Asset Management
- Spare Parts Management
- Engineering Leadership
- Commissioning & Start-up
- Industrial Safety (HSE)
- Project Management
- Industrial Automation
- Electrical & Instrumentation Engineering

TECHNICAL SKILLS

PLC & Automation	Maintenance & Reliability
Siemens TIA Portal	Preventive Maintenance
Mitsubishi GX Works	Predictive Maintenance
Omron CX-Programmer	Corrective Maintenance
LS Electric XG5000	TPM Implementation
Schneider Electric PLC	RCA (5 Why, Fishbone)
Haiwell PLC	FMEA
HMI Development	OEE Monitoring
VFD Configuration	Reliability Engineering
Industrial Networking	RCM
Electrical Wiring Design	CMMS Fundamentals

SCADA & Industrial IoT	Engineering Software
AVEVA Wonderware InTouch	Autodesk Inventor
ICONICS SCADA	SolidWorks
CIMON SCADA	Simurelay
MQTT Protocol	Microsoft Visual Studio
Siemens IoT2040	Android Studio
ESP8266 / NodeMCU	Microsoft Office Suite
Modbus RTU/TCP	Technical Documentation
Industrial Ethernet	Engineering Reporting

PROFESSIONAL EXPERIENCE

Dinas Lingkungan Hidup Provinsi DKI Jakarta

Instrumentation & Control Engineer Supervisor (Section Head)

July 2024 – Present | Bantargebang, Indonesia

Responsibilities

- Lead and supervise **20 maintenance technicians** across instrumentation, electrical, and mechanical disciplines.
- Manage preventive and corrective maintenance programs for more than **500 critical assets and equipment**.
- Perform calibration activities for pH analyzers, pressure transmitters, smart valve positioners, and weighing systems.
- Develop and maintain PLC applications using LS Electric, Mitsubishi, Omron, and Schneider Electric platforms.
- Configure, maintain, and optimize CIMON and ICONICS SCADA systems.
- Conduct commissioning, reliability testing, and troubleshooting activities.
- Supervise maintenance operations for 10-ton overhead cranes and grab cranes.
- Prepare engineering estimations, maintenance budgets, and improvement proposals.
- Deliver electrical installation and industrial wiring training programs.

Key Achievements

- Reduced unplanned equipment downtime by **25%** through preventive maintenance optimization.
- Successfully completed **10 engineering improvement projects** focused on reliability and operational efficiency.
- Executed **1 Kaizen project** for maintenance process standardization.
- Maintained operational readiness of over **500 industrial assets**.
- Strengthened equipment reliability through systematic RCA and TPM implementation.

KYB Corporation

Foreman Maintenance / Sub-Section Maintenance Head

January 2023 – July 2023 | Bekasi, Indonesia

Responsibilities

- Managed preventive maintenance schedules and maintenance resources.
- Coordinated TPM implementation with production divisions.
- Conducted Root Cause Analysis (RCA) for recurring machine failures.
- Facilitated Kaizen activities and management reviews.
- Interpreted electrical and mechanical engineering drawings.
- Led continuous improvement initiatives across maintenance operations.

Key Achievements

- Improved equipment reliability through TPM activities.
- Reduced maintenance disruptions using systematic RCA methodologies.
- Supported cross-functional improvement initiatives aligned with Lean Manufacturing principles.

PT Dasa Windu Agung

Maintenance Engineer

August 2022 – December 2022 | Bekasi, Indonesia

Responsibilities

- Conducted daily, weekly, and preventive maintenance inspections.
- Performed PLC programming and electrical troubleshooting activities.
- Supported Industry 4.0 implementation initiatives.
- Managed spare-part inventories and maintenance records.
- Read and interpreted electrical and mechanical drawings.
- Assisted in industrial automation projects.

PT Federal Izumi Manufacturing

Automation Engineer & Maintenance Engineer

December 2021 – July 2022 | Indonesia

Major Project: CBC Machine Line 35 Development

Project Value: IDR 539 Million (approximately USD 35,000)

Responsibilities

- Led machine line development and installation activities.
- Executed electrical installation and industrial wiring projects.
- Developed PLC programs and HMI configurations.
- Conducted commissioning and production trial activities.
- Performed electrical and mechanical troubleshooting.
- Supported machining and assembly production operations.
- Managed project execution valued at IDR 539 million.
- Designed automation systems and machine integration strategies.
- Performed PLC programming and HMI development.
- Executed electrical installations and commissioning activities.
- Conducted production trials and process optimization

Key Achievements

- Successfully completed a major automation project within allocated budget.
- Improved manufacturing capability through machine line modernization.
- Enhanced process efficiency through automation integration.

CERTIFICATIONS

- Assistant Manager of Development and Installation of Medium Voltage Electrical Distribution
- Junior Instructor Level 3
- Autodesk Inventor Professional Training
- SolidWorks Professional Training

AWARDS & ACHIEVEMENTS

- Gold Medal – Pekan Inovasi Mercu Buana
- Successfully managed 500+ industrial assets.
- Reduced maintenance downtime by 25%.
- Delivered 10 engineering and improvement projects.
- Lead and supervised a team of 20 maintenance technicians.

LANGUAGES

- Bahasa Indonesia — Native Proficiency
- English — Professional Working Proficiency