



Ahmad Hanafi

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About Me

Automation Engineering with hands-on experience in PLC, HMI, and inverter programming, as well as on-site troubleshooting. Familiar with industrial control systems, electrical panels, and commissioning support. Highly motivated to grow as an Automation Engineer or Electrical Technician in an industrial environment.

Skill

- PLC Programming
- Industrial Electrical
- Control System
- Industrial Automation
- Electronics & PCB

Work Experience

PT Handal Yesindo Sejahtera

2025 -Now

Automation Engineer

- Developed and modified PLC programs for machine control and automation processes
- Designed and configured HMI interfaces for monitoring and operator control
- Performed troubleshooting on control panels, sensors, and field devices
- Supported maintenance and improvement of existing automation programs

PT Djarum | Internship

2024

Maintenance Operation Secondary

- Assist in repairing electronic devices
- Assist in cable installation on production machines

Education

Politeknik Negeri Semarang

2022 - 2025

Diploma in Electronic Engineering (GPA: 3.38/4.0)

Project

- **PLC-Based Conveyor Positioning Training Module** 2025
Developed PLC and HMI programs for a distance-based conveyor positioning system used in technical training.
- **Local web-based energy monitoring using a wireless protocol (final project)** 2025
A system that measures electrical energy with a power meter, processes data via Raspberry Pi, and displays usage on a local web interface.
- **Empty Vane Detector Sensor for Packer Machine** 2024
Designed a sensor to detect passing objects by utilizing an AND gate, providing a simple and reliable detection method for automation processes.
- **Line Follower Robot** 2023
Autonomous robot using infrared sensors and Atmega32 to follow a predefined path with real-time motor control.

Certifications

- Industrial Automation
- TOIEC (Test of English for International Communication) (Score : 500)