



Ahmad Hanafi

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About Me

Graduate in Electronic Engineering with skills in microcontroller programming, IoT, PLC, PCB design, and control systems. Experienced in troubleshooting and automation projects, disciplined, and eager to build a career in industrial automation.

Education

Politeknik Negeri Semarang

Associate Degree in Electronic Engineering (GPA: 3.38/4.0)

2022 - 2025

Skill

- Microcontroller Programming
- PLC
- Internet of Things
- PCB Design
- Control Systems,
- 3D Design

Work Experience

PT Djarum | Internship

2024

Maintenance Operation Secondary

- Assist in assembling and repairing industrial PCs
- Assist in repairing electronic devices
- Assist in repairing production machines
- Assist in cable installation on production machines
- Make a report

Project

- **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.
- **Chicken Egg Incubator Using AC Lamp and PID Control** 2024
A system using DS18B20 sensor to maintain stable chicken coop temperature for optimal growth and productivity.
- **Implementation Of Automatic Door And Bell System** 2023
Door system with infrared and ultrasonic sensors to detect people and trigger automatic door and greeting bell.
- **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)