

Priyo Adi Wibowo



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 <https://priyoject.qzz.io/>

ABOUT ME

Electronics Engineering graduate (D3) from State Polytechnic of Malang with hands-on experience in Web Development, low-voltage electrical systems, PCB design, and embedded system programming (C++, automation control, and IoT). Skilled in ESP32-based IoT solutions (sensor networks, wireless monitoring), circuit wiring, electronic component assembly, Instrumentation, and optimizing system performance. Contributed to research projects, including the development of an Adjustable 3D print Extruder with Heat and Speed Parameter. Strong teamwork and communication abilities, with a passion for Industry 4.0 and IoT-driven industrial innovation.

EDUCATION

DIPLOMA III IN ELECTRONICS ENGINEERING

GPA: 3,55

- State Polytechnic of Malang, Malang, East Java 2025

EXPERIENCE

Internship – Electrical Engineering

June 2024–August 2024 & January 2025–February 2025

PT. PLN Nusantara Power Unit Pembangunan Brantas (PLTA Tulungagung), Tulungagung

- Performed preventive maintenance on critical power systems including transformers, jet coolers, and exciter systems
- Conducted insulation resistance tests on transformers and generators using Megger
- Executed resistance checks on motor governor protection system coils at Motor Control Centre (MCC)
- Over change the water cooler barrel on power generator

PROJECTS

- ToolE** April – May 2026
(Personal Project)
 - a comprehensive, web and mobile apps that suite of electronics and engineering tools wrapped in a single, sleek, and highly responsive interface.
 - Tech Stacks : HTML, CSS, JS, MathLive, LaTeX
- BowAI** April 2026
(Personal Project)
 - A modern, feature-rich Flutter Personal AI chat application that gives you a beautiful, intuitive interface to converse with a wide range of AI models that powered by a single OpenRouter API key.
 - Tech Stacks : Flutter, Dart
- IoT Based Lamp Controller Testing** January – February 2026
(Private Client)
 - Developed an IoT-based evaluation system that monitors lamp controllers in real-time, displaying live measurements and automatically classifying module health and operational status.
 - Tech Stacks : ArduinoIDE, PlatformIO, C/C++, HTML,CSS,JS, Web Server
- RS485 Lamp Controller Diagnostic Software** January – February 2026
(Private Client)
 - Developed a custom Python desktop application using PySide6 to test and validate ESP32 Lamp Controllers. Implemented reliable data fetching and real-time monitoring via RS485 (USB to TTL) serial communication.
 - Tech Stacks : Python, PySide6

- High-Precision Smart Extruder Module for 3D Printing**

January – June 2025
(Final Project)

 - Developed a precision control system for optimized 3D printing, featuring adjustable temperature setpoints and customizable stepper motor speeds.
 - Tech Stacks : PlatformIO, ArduinoIDE, C/C++, ESP32
- IoT-Based Smart Lawn Watering System**

December 2024
(Personal Project)

 - Developed an IoT-based automated lawn irrigation system using an ESP32 microcontroller to monitor soil moisture and dynamically control watering schedules for optimize water usage and reduce manual maintenance.
 - Tech Stacks : ArduinoIDE, C/C++, HTML, CSS, JS
- IoT Based ESP32 BMKG Weather Tracker**

October 2024
(Personal Project)

 - Developed an ESP32-based weather monitoring system that retrieves API weather data and displays temperature, humidity, and location information through a serial monitor.
 - Tech Stacks : ArduinoIDE, C/C++, HTML,CSS, JS, Web Server, API

TECHNICAL SKILLS

Embedded System, Web Development, IoT Development, Basic Linux Operating System, PLC Programming, PCB Design, , Circuit Design & Analysis, Low-voltage Electrical Systems, Component Assembly & Testing, Instrumentation, System Control, Analog/Digital Processing, Sensor Integration

PROGRAMMING SKILLS

- C/C++ (Embedded System, IoT Development, Microcontroller Programming)
- Ladder PLC (PLC Ladder Logic Programming)
- Web Development (HTML, CSS, JavaScript, PHP, SQL)
- Python (Basic Python Programming)

SOFTWARE & TOOLS

- Proteus, EasyEDA, & KiCAD (PCB Design, Circuit Wiring and Circuit Simulation)
- SolidWorks (Basic 3D Design)
- CX-Programmer (OMRON Ladder PLC Programming)
- Arduino IDE & PlatformIO (IoT Development and Microcontroller Programming)
- VS Code & Antigravity (Web Development)
- MS. Office (Ms Excel, MS Power Point, MS Word)

CERTIFICATE

- TOEIC with Score 645, Issued by International Test Center (ITC)
- Python (Basic), Issued by HackerRank
- Pneumatic System Assembly and Equipment, Issued by BNSP

ORGANIZATION

- UKM Seni Theatrisic**

2022–2023

 - Steering Committee
- Forum Daerah Komunikasi Mahasiswa Polinema Pasuruan**

2022–2023

 - Publication & Documentation Staff
- Mechatronics Labs**

2024–2025

 - Extruder (2x2x2meter Bilateral 3D printer part) Building Team

LANGUAGE

- Indonesia (Native)
- English (Proeficient)