

# Mohammad Rizqi Aulia Abdillah

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## **ABOUT ME**

Mechatronics and Artificial Intelligence student at the Indonesia University of Education. Experienced as a staff member of Commission 1 of HIMATRONIKA-AI and project experience in IoT and automation systems. Skilled in using microcontrollers, circuit design, and PLC programming with software such as PROTEUS, EAGLE, CX-PROGRAMMER, Arduino IDE, ISPsoft, and FluidSIM. Enthusiastic about applying technical skills in a professional environment and seeking internship opportunities to deepen hands-on experience in IoT, automation, or mechatronics engineering.

## **EDUCATION**

Indonesia University of Education (UPI) — Major Mechatronics and Artificial Intelligence — GPA: 3.72  
**Sept 2023 – Present | Core Courses:** Electronics, Control Systems, Microcontrollers, PLC, IoT, Robotics

## **EXPERIENCE & ORGANIZATIONS**

### **Commission 1 Staff – HIMATRONIKA-AI Jan 2024 – Dec 2024**

- Supervise the performance of the treasury department
- Supervise the performance of the secretary department.
- Supervise the performance of the entrepreneurship department

### **Logistics Staff – Trisula Suaka Apr 2025 – July 2025**

- Manage procurement, storage, and distribution of event equipment and supplies.
- Prepare and organize the venue according to the event plan and technical requirements, coordinating with other divisions.
- Arrange accommodation for the committee at the event location.
- Ensure availability and proper documentation of all items needed throughout the event.

## **PROJECTS**

- **Automatic Rice Weighing System** – ESP32-based scale using load cell and infrared sensors for automatic rice measurement.
- **Camera-Based Firefighting Line Follower** – Line-following robot that uses a camera for flame detection, then autonomously follows the track and advances toward the fire point for extinguishing.
- **Dynamo-Based Powerbank** – Portable powerbank using dynamo-based energy harvesting with smart charging for mobile devices on the go.
- **Delta PLC Automation System** – Project using ISPSoft and DOPSoft to simulate tank water level control, conveyor bottle filling, and real-time HMI monitoring of sensors and actuators.
- **Hydraulic Cutting Machine Trainer** – Omron PLC-based hydraulic trainer controlling a double-acting cylinder with sensors and emergency stop.

## **SKILLS & CERTIFICATES**

**Soft Skills:** Public Speaking, Collaborative, Problem Solving, Critical Thinking.

**Technical Skills:** PLC & HMI, Arduino, ESP, Electrical Wiring

**Software Tools:** PROTEUS, CX-Programmer, Arduino IDE, ISPsoft, FluidSIM

**Certificate:** Certificate Introduction to Cloud Cognitive Class 2025, Certificate of Cloud Essentials IBM 2025