

AQILA RESTU AMROZI

aqila.restu.amrozi-2024@ftmm.unair.ac.id | 089602124347 | www.linkedin.com/in/aqila-restu-amrozi-802590324/

PROFILE

Undergraduate student in Robotics and Artificial Intelligence Engineering at Universitas Airlangga with a strong interest in robotics, embedded systems, and the Internet of Things (IoT). Experienced in developing Arduino and ESP32-based projects, including hardware design, microcontroller programming, sensor integration, and system testing. Eager to contribute as a Part-Time Robotics Teacher by creating an interactive, hands-on learning environment that inspires students to explore technology.

EDUCATION

Universitas Airlangga

2024 - Present

Bachelor of Robotics and Artificial Intelligence Engineering

PROJECT EXPERIENCE

Automated Guided Vehicle (AGV)

2026

Robotic Experiments I

- Designed and developed an Arduino-based Automated Guided Vehicle (AGV).
- Implemented line-following navigation using TCRT5000 infrared sensors.
- Applied PID control to improve navigation accuracy and stability.
- Conducted sensor calibration, programming, and performance testing.

TANGKAS – Smart Water Tank Monitoring System

2026

IoT and Embedded System

- Developed an IoT-based water tank monitoring system using ESP32.
- Integrated a Water Level Sensor and Float Switch for real-time water level monitoring.
- Implemented Telegram notifications to provide remote monitoring updates.
- Performed hardware integration, embedded programming, and system validation.

SKILL

- Technical skill : Programming, Embedded Systems, Internet of Things, Basic Electronics
- Soft skill : Communication, Communication, Leadership, Teamwork, Problem Solving
- Language : English (Intermediate), Indonesia (Native)