

Gading Junior Sayyidina



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Semarang, ID

Profile

Motivated and hands-on Electronics Engineering student with a strong passion for embedded systems, IoT, and practical applications of industrial electronics. Experienced in working on various academic projects involving sensors, microcontrollers, and real-time data systems. Proven ability to apply classroom knowledge to real-world solutions, from sensor integration to dashboard monitoring. Enthusiastic about continuous learning and sharing insights through teamwork and collaboration. Eager to contribute technical skills and project experience to a dynamic engineering environment, while continuously developing as a future professional in electronics and automation.

Education

ASSOCIATE DEGREE IN ELECTRONICS ENGINEERING | POLITEKNIK NEGERI SEMARANG

Expected Graduation: 2025

GPA: 3.82 / 4.0; Electronics Engineering student actively involved in various practical and research-based projects. Experienced in working with sensors, microcontrollers, and industrial modules for academic and real-world applications.

Experience

INTERN | PT. ROHDE & SCHWARZ INDONESIA | SEPTEMBER 24 - MARCH 25

- As an Application Engineer in Test and Measurements Division
- Providing Technical Support During Product Presentations
- Conducting Product Tests and Demonstrations
- Analyzing Customer Needs to Offer Tailored Solutions
- Delivering Training and Post-Sales Technical Support.

Project

Competitive Fund Program: PiDAQ

Year: 2024

Role: Project Researcher

PiDAQ (Polines IoT Data Acquisition), IoT-based industrial data acquisition module using industrial internet of things (IIoT) technology.

Smart Glasses for the Blind Based on the Internet Of Things

Year: 2024

Role: Project Leader

Innovative auxiliary tool for the blind that can be monitored through a device so that it can be petrified and keep users from hitting objects in front of them.

Line Follower

Year: 2024

Role: Project Researcher

Designed and implemented an autonomous line-following robot using infrared sensors and Arduino microcontroller. The system was programmed to detect and follow a predefined path accurately, with real-time motor control based on sensor feedback. This project enhanced my skills in embedded systems, sensor integration, and basic robotics.

IoT-based Hydroponic Monitoring

Year: 2023

Role: Embedded Systems Developer, Sensor Integration Specialist

Provides accurate monitoring of environmental parameters such as humidity, temperature, soil pH, and nutrients, which are crucial for hydroponic plant growth.

Power Supply Current Amplifier Circuit

Year: 2023

Developed a current amplifier circuit for a DC power supply using transistor-based configuration to increase current output capability. Designed to support higher load currents while maintaining stable voltage levels, this project improved my understanding of power electronics, and transistor biasing.

Licences & Certifications

PCB Design and Manufacturing Training for Industry

Nov 2024 - Nov 2026

TOEIC (Test of English for International Communication)

Oct 2024 - Oct 2026; Score: 755

Certification: Scaling Digitalization with Edge-as-a-Service

Sep 2024 - Sep 2026

Mastering EdgeLink: IoT Gateway for Seamless OT-IT Integration

Sep 2024 - Sep 2026

WISE-4000/LAN Wireless I/O Module Series - Basic

Sep 2024 - Sep 2026

Industry Automation

Aug 2024 - Aug 2027

Achievement

Silver Medalist of Indonesia International IoT Olympiad (I3O)

2025; With the title Sortez: Automatic Color and Weight Fruit Sorter Based on Raspberry PI and PLC Integrated with Internet of Things (IoT)

Skills

- Adaptability
- Ability to work in a team
- Communication
- Leadership
- Teamwork
- Problem solving skill
- Internet of Things
- Project Management
- Microsoft Office
- PLC
- PCB Design