



Tiara Hande Dias

Kusumaningrum

Research and Development (R&D)

CONTACT

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📍 Semarang

EDUCATION

2022 – 2026

Bachelor of Applied
Science (S.Tr) – Electronic
Engineering Technology

Politeknik Negeri Semarang

GPA: 3.5 / 4.0

2018– 2021

SMKN 7 Semarang

Vocational High School

Diploma – Power and

Communication Electronics

ORGANIZATIONAL EXPERIENCE

2023–2024

Himpunan Mahasiswa Elektro

POLINES

- Program Secretary (2x)
- Program Treasurer (1x)

Languages

- Indonesian – Native
- English – Fluent
- Korean – Basic understanding

ABOUT ME

I am an electronics student with a strong interest in Research and Development (R&D). My background in IoT, automation, and system design has equipped me with the skills to explore new technologies, create innovative solutions, and improve existing systems. I am passionate about experimenting, problem-solving, and applying my knowledge to drive innovation and contribute to technological advancements.

TECHNICAL SKILLS

- Microcontroller Programming (Arduino, ESP32)
- IoT Systems and Prototyping
- Simulation and Design: Webots, Proteus, Eagle, LabVIEW, MATLAB
- PLC Programming: GX Works
- Application Development: Lazarus
- Microsoft Office (Word, Excel, PowerPoint)
- Teamwork and Problem-Solving

TECHNICAL PROJECTS

- Thesis Project: IoT-based automation for aquaculture, integrating sensors (pH, temperature, water level) and actuators for feeding and water flow, with remote access capabilities.
- Line Follower Robot: Designed and programmed a robot using sensor arrays and motor drivers.
- Motor Driver Control: Developed and tested driver motor circuits with microcontroller integration.