



Najwa Mutiara Ajie

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I am a final year student of D3 Electronics Engineering Study Program at Politeknik Negeri Semarang who has high enthusiasm in developing technical and analytical skills. Have an interest in circuit design, microcontroller programming, and automation systems. Committed to continuously learning new things and proactively improving my competence in electronics.

EDUCATION

D3 Electronics Engineering, Politeknik Negeri Semarang

September 2022 – Present

- GPA: 3.66/4.0
- Kitano Foundation Education Scholarship 2023

MIPA, SMA N 15 Semarang

July 2019 – May 2022

WORK EXPERIENCE

Internship, PT. Ruang Industri Indonesia

August 2024 – December 2024

- Support the process of planning, designing and testing ASRS systems
- Operate and program PLC for ASRS system
- Assist in analyzing and solving technical problems related to electronic systems

ORGANIZATION EXPERIENCE

Volunterr for FKBSE 2023

September 2023

- Guiding and supporting participants during the Forum of Familiarity and Electrical Social Service (FKBSE) event.
- Provide direction and information needed so that participants can follow the event smoothly

Volunterr for WARNA 2023

August 2023

- Responsible for helping guide and accompany participants during the event
- Accompany participants during the orientation process, provide information about campus facilities, and assist participants in adapting to the campus environment

PROJECT EXPERIENCE

Internship Project: LC-based Automated Storage and Retrieval System (ASRS)

Agustus– Des 2024

- Develop an ASRS system to automate the storage and retrieval of goods in a warehouse
- Designed the mechanical structure and electrical integration of the ASRS system
- Participated in testing and refining the system to ensure smooth operation and accuracy

Group Project: IoT-based Temperature Monitoring Device

November - December 2023

- Participated in the planning and design of the IoT-based temperature monitoring system
- Manage the PCB (Printed circuit Board) printing process to support the monitoring system

Group Project: Voltage Lowering Device

June - July 2023

- Participate in the planning and design phase of the voltage lowering device circuit
- Contribute to the preparation of project reports and presentation of group results

CERTIFICATE OF COMPETENCY

- Certificate of Competency in Industrial Automation (BNSP)

August 2024

SKILLS

Microsoft Office: Word, Excel, dan Power Point

Soft Skills: Time management, communication, teamwork, commitment and responsibility

Basic Electronics Programs: Arduino IDE, PLC, Matlab, dan Labview

Electronics Circuit Schematics and PCB Design: Software Proteus dan EasyEda