

## MUHAMMAD YUNAN YUANSYAH

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### EDUCATION

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**Electrical Engineering, Universitas Negeri Yogyakarta**

Indonesia

**Current GPA: 3.38**

2022-Present

### WORKING EXPERIENCES

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**Student Entrepreneur Project at Sell & Buy Marketplace**

Sept 2023 – Sept 2024

*Software Engineer*

- Initiated and developed a digital marketplace specifically designed to meet students' needs in finding goods and services, with the aim of creating a more efficient, connected, and socially as well as economically empowered campus ecosystem..
- Responsible for designing, implementing, and maintaining the user interface (UI) of the application, ensuring a seamless and engaging user experience (UX)
- Responsible for designing, implementing, and maintaining the server-side logic and architecture of the application.

**Part-time Private Teacher at Star Private Yogyakarta**

Aug 2024- Present

- Responsible to teach basic and advance mathematical problem.

### ACHIEVEMENTS

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**Awardee of the Outstanding Student Award UNY 2025**

Mei 2025

- Granted in recognition of exceptional academic performance and impactful contributions to student innovation and community development.
- This award was achieved through leading the development of a digital marketplace that addressed key student needs, demonstrating initiative, creativity, and social impact in the field of student entrepreneurship.

### PROJECTS

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#### Software Engineering

- Developed a digital marketplace website for university students using the MERN stack (MongoDB, Express.js, React, Node.js). Designed and implemented features such as user authentication, product listings, and transaction workflows to facilitate peer-to-peer buying and selling within the student community.
- Built a web-based application to monitor and manage Door Lock System projects with face recognition technology, using Firebase for real-time database and authentication, Next.js for the frontend, and FastAPI for the backend API.
- Developed a web-based application to record and track purchased items, providing users with a simple interface to manage and review purchase history.

#### Artificial Intelligence

- Developed a smart air cooling device that automatically regulates room temperature based on environmental sensors using Fuzzy Logic

- Developed a Door Lock System with face recognition technology, integrating hardware and software to provide secure and automated access control.

### **Embedded System**

- Developed an automated door locking system using RFID technology and ESP32 microcontroller to enable secure, contactless access.
- Developed a room temperature control system using ESP32 and environmental sensors to monitor and regulate room conditions automatically.
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### **IOT**

- Developed an IoT-based soil humidity monitoring and control system using ESP32 and DHT11 sensor, integrated with a web/mobile application for real-time monitoring and control.

## **ORGANIZATIONAL EXPERIENCES**

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### **Electrical Engineering Expo**

Staff of Design and Documentation

- Served as part of the Design and Documentation team, responsible for creating visual materials, project reports, and structured documentation to support organizational activities and projects

### **Namche's Event : Art Day 2018-2020**

*Chief Coordinator of Financial Mangement Division*

- Responsible to maintain income and sponsorship relation throughout the event.
- Arrange and plan the cash flow of the event.

### **NBC : Namche Basketball Championship**

2019-2020

*Staff of Sponsorship Division*

- Responsible to maintain sponsorship relation throughout the event.

## **SKILLS**

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### **Certificate**

- Introduction to Front-End Development by Meta

### **Coding**

- Microsoft Visual Studio
- C# , C++
- Javascript
- Typescript
- Python
- Arduino IDE (Microcontroller)

### **Programmable Logic Controller**

- CX-Programmer (Omron PLC)
- Zelio Soft (Schneider PLC)

### **MS Office**

- Word
- Power Point
- Excel

## Language

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- Indonesian (Native)
- English