MUHAMMAD YUNAN YUANSYAH

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EDUCATION

Electrical Engineering, Universitas Negeri Yogyakarta Indonesia
Current GPA: 3.44 2022-Present

WORK EXPERIENCES

Sell & Buy Marketplace's Student Entrepreneur Project 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 Tutor at Star Private Yogyakarta Aug 2024- Jul 2025
- Responsible to teach basic and advance mathematical problem.

Electrical Engineer at PT. Madu Baru Jul 2025- Sep 2025
- Operate, monitor, and perform preventive maintenance on generators and other electrical equipment to ensure a reliable power supply.

ACHIEVEMENTS

Awardee of the Outstanding Student Award UNY 2025 May 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

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.

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

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

Programming and application
- C# , C++
- Javascript
- Typescript
- Dart
- Python
- Arduino IDE
- Android Studio
- Figma

Data Store
- PostgreSQL
- Firebase
- MongoDB