

# Rayhan Kimi Nabel Athallah

Electrical Engineering  
Undergraduate

## CONTACT

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## ABOUT

An Electrical Engineering undergraduate specializing in Control Engineering and Robotics, with a deep interest in and focus on Internet of Things (IoT) development. I am passionate about the concept of sustainable projects and possess a strong sense of curiosity, enjoying the exploration of various fields of knowledge.

## CAMPUS EXPERIENCE

### Head of Research & Development Division 2023-2024

Scientific Field Himpunan Mahasiswa Elektro Universitas Udayana

- Head of assistant lab: Assist college subordinate in lab practices, mostly at basic electrical engineering lab and microcontroller lab and becoming judge for annual PILMAPRES Competition (Pemilihan Mahasiswa Berprestasi)

### Bina Desa (MBKM) Himpunan Mahasiswa Elektro 2024

Himpunan Mahasiswa Elektro Universitas Udayana

- Jump straight in to solve climate change issues at coffee plantation at Pajahan village, Tabanan and managed to invent coffee bean solar dryer to decrease coffee drying time from 15 days to 4 days (reduced by 70%) per 40 kg batches as a team.

## PROJECTS

### 2nd Winner LKCT (Lomba Karya Cipta) ELCCO 2024

Electrical & Computer National Competition held by Universitas Udayana

- Creating traffic detection system using Light-Dependent Resistor sensor with IoT system using Firebase as BaaS. This project is further continued for final student project using PyTorch based computer vision model & Django REST Framework as backend

### Contender at P2MW (Program Pembinaan Mahasiswa Wirausaha) 2024

Universitas Udayana

- Able to develop IoT based monitoring system, integrated with plant disease computer vision mobile apps, and developed 2 type of device. Small & cheaper one and big one. Contributed in firmware & firebase integration.

### Contributor at SuikaDev (2025 - Now)

Indie Developer Team

- Contributed in indie developer team consisting 5 people. Responsible for making express based microservices for WhatsApp bot and ongoing migration to Go based framework.
- Also contributed in creating MVP for PC status monitoring thanks to OpenHardware using ESP32 based devices with TFT LCD programmed with LVGL.

## EDUCATION STATUS

### Universitas Udayana

Bachelor of Electrical Engineering Undergraduate

- **Current GPA: 3.67** with specialization in Control Engineering and Robotics Concentration. **TOEFL Score : 602**
- Earliest expected graduation date : **August 2025**
- Current final project status : **Waiting for final examination (sidang akhir) in June**

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## WORK EXPERIENCE

### Website Quality Assurance Intern

Timedoor Indonesia. (4 Month)

- Able to test website, mostly shopify, laravel, wordpress based website manually using testcases and automatically by using cypress. Experienced in elaborating in Japanese client project and communicating with developer team with helpful and constructive B2B solution.
- Still on internship program until 2 May 2025

## COMPETENCIES

### Back-End Development

- Django REST Framework
- FastAPI
- Express.js (beginner)
- Gin (beginner)
- Node-RED (beginner)

Able to make backend API with integrated unit test in CI (pytest, jest). Able to integrate and deploy backend based project using docker. Familiar with relational database integration (PostgreSQL, MariaDB) and NoSQL database (MongoDB).

### Firmware

#### Development Tools :

- Arduino IDE
- PlatformIO
- MicroPython
- STM32Cube
- ESP-IDF (beginner)

#### Board :

- ESP32, ESP8266, ESP32-S3, ESP-01, ESP32 LoRa LILYGO
- Arduino Uno
- Raspberry Pi 5
- STM32 Bluepill & Blackpill, STM32F4 Discovery (beginner)

#### Library :

- FreeRTOS
- TFT eSPI
- LVGL
- ESP WebServer (WiFi Station, AP, or both)
- ESP WebSocket
- Most of basic sensor

### Machine Learning (Beginner)

- PyTorch
- YoLo
- NumPy
- Roboflow

Able to make simple model and data acquisition using Roboflow and deploy using ONNX format only in edge devices currently.

### Other

- Docker
- Docker Compose
- Linux (Debian-Based)
- Firebase RTDB
- Firebase Auth
- AWS EC2
- Vercel
- Midtrans (beginner)
- Vue.js (beginner)
- Kotlin for Android (beginner)