



# Rayhan Kimi Nabiel Athallah S.T

## Curriculum Vitae

### CONTACT

**Phone:** +62 896-3816-0090  
**Email:** r4yhankimi@gmail.com  
**Domicile :** Kuta Selatan, Badung, Bali  
**Website :** <https://rayhank.com>  
**Github :** <https://github.com/rayhankimi>  
**LinkedIn :** [www.linkedin.com/in/rayhankimi](http://www.linkedin.com/in/rayhankimi)

### ABOUT

An Electrical Engineering undergraduate specializing in **Control Engineering and Robotics**, with a deep interest in and focus on **Internet of Things (IoT) development** and **cloud computing**.

**Language proficiency :** Indonesia (native), English (conversational), Balinese (Conversational)

### ACHIEVEMENT

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

- **Developed** early traffic detection system using Light-Dependent Resistor sensor paired with laser and integrated **IoT system** using **Firestore** as BaaS.

#### Funded in P2MW (Program Pembinaan Mahasiswa Wirausaha) 2024

- **Develop and marketed** IoT agriculture monitoring device and able to **reach market** in farmer community in Tabanan

#### Silver Award in International Creative and Innovative Idea Competition 2025 & Bina Desa MBKM 2023

- **Develop** IoT coffee dryer system in Pajahan village Tabanan to help coffee farmer dry their coffee in cold climate with low yearly sunlight rate. **Funded in** Bina Desa MBKM Program and **receive silver award** in International Creative & Innovative Idea Competition.

### ORGANIZATION

#### Himpunan Mahasiswa Elektro 2023 Period Head of Research & Development

- Served as **head of laboratory assistant**, held yearly PILMAPRES competition, and managing scientific paper publishment.

#### Himpunan Mahasiswa Elektro 2022 Period Member of Scientific Division

- Served in Research & Development division in curriculum change once every 5 year, managing paper publishment, served as **member of laboratory assistant**

#### SuikaDev (2024 - Now) Contributor

- Contributed in indie developer team with focus in **skill growth and teamwork**. Participated in **WhatsApp bot project API, LCD hardware monitoring device**, and **managing project cloud server**.

### EXPERIENCE

#### PT. Timedoor Indonesia

Web Quality Assurance Intern (4 Month)

- Able to **test website manually** with **agile development** in Shopify and Laravel based website. Learned about automated testing using **cypress**.

### EDUCATION

#### Universitas Udayana

Bachelor of Electrical Engineering with Robotics & Electronic focus. **(GPA : 3.77)**

#### SMA Negeri 1 Kuta

#### SMP Muhammadiyah 2 Denpasar

#### SD Muhammadiyah 1 Denpasar

### FIRMWARE COMPETENCIES

#### Board :

- ESP32
- Arduino Uno, Mega
- STM32
- Raspberry Pi
- LiLyGO LoRa32

#### Dev. Tools & Library :

- Mosquitto MQTT
- PlatformIO
- ESP-IDF using Eclipse IDE
- FreeRTOS
- LVGL

### CLOUD COMPUTING COMPETENCIES

#### OS :

- Arch Based (Desktop)
- Debian (Server)
- Ubuntu (Server)
- RockyLinux (Server)
- Google Cloud (Compute Engine, Firebase)
- Amazon Web Service (EC2, S3)
- Vercel

### SOFTWARE COMPETENCIES

#### Language :

- Python
- Go
- C
- C++
- JavaScript

#### Tech :

- Gin
- go net/http
- Django REST
- Grafana
- Vue js & Nuxt
- YoLoV5s
- Git
- Docker
- FastAPI
- Node- RED

### OTHER

#### Related Skill :

- Google Docs
- Notion
- Spreadsheet

#### Soft Skill :

- Communication
- Presentation & Public Speaking
- Growth Mindset
- Curiosity



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Portfolio 1/2

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## ABOUT

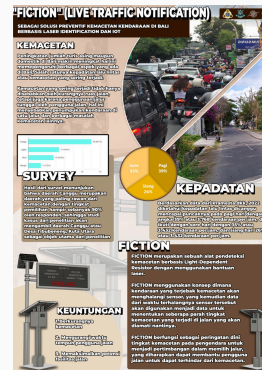
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## TEAM PROJECTS

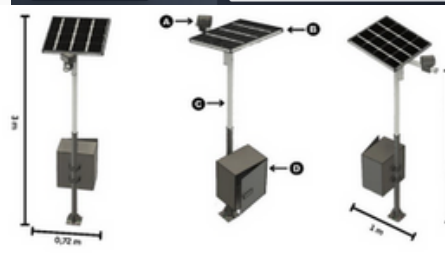
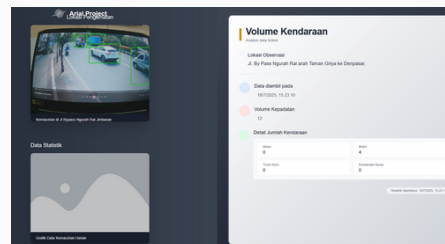
### 2nd Winner LKCT (Lomba Karya Cipta) ELCCO National Competition 2024

- **Developed** early traffic detection system using Light-Dependent Resistor sensor paired with laser and integrated **IoT system** using **ESP32** with light-dependent resistor and laser. Communicated using **Firestore** as BaaS to display early traffic status near impacted lane.



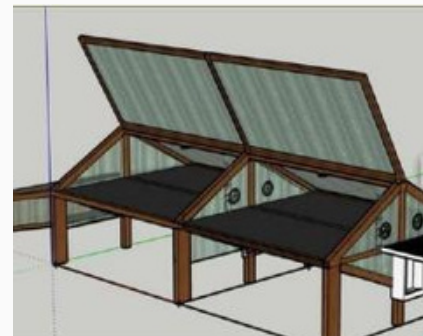
### Final Year Capstone Project (2024-2025)

- **Upgraded** version of Lomba Karya Cipta ELCCO National Competition 2024. Built prototype of **Automated Traffic Light Phase Control** using **Raspberry Pi 5** and **YoLoV5s computer vision** model to automatically decide traffic light phase in most traffic-affected lane. Also built **Vue js website** for monitoring traffic.



### Silver Award in International Creative and Innovative Idea Competition 2025 & Bina Desa MBKM 2023

- **Develop** IoT coffee dryer system using **ESP32** with thermostat system and powered using battery with 2 source, **photovoltaic** and power outlet. Managed to build drying system with no thermal escape and able to keep the temperature to 55 degree which is suitable and recommended for maintaining coffee quality





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Portfolio 2/2

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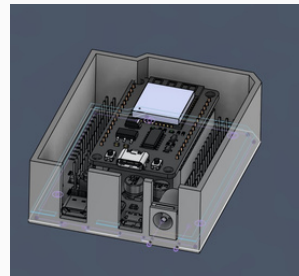
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An Electrical Engineering undergraduate specializing in **Control Engineering and Robotics**, with a deep interest in and focus on **Internet of Things (IoT) development and cloud computing**.

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## Funded in P2MW (Program Pembinaan Mahasiswa Wirausaha) 2024

- **Develop and marketed** IoT agriculture monitoring device and able to **reach market** in farmer community in Tabanan. Built an **ESP32** based monitoring system and **Raspberry Pi 5** system such as soil moisture and pest detection integrated with **mobile apps** with leaf **machine learning identification** to detect plant disease.



## SuikaDev (2024 - Now)

Contributor

- Contributed in indie developer team with focus in **skill growth and teamwork**. Participated in **WhatsApp bot project API, LCD hardware monitoring device, and managing project cloud server**. Most of them are prototype and we're funding ourself by selling game hosting service to build more projects.

