

Nico Renaldo

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SUMMARY

A determined final year student at Gadjah Mada University with focus on electronic and computer. Contributed on multiple research project as project architect and software engineer, especially in microcontrollers and system backend topics

EDUCATION

Gadjah Mada University, Electrical Engineering, B.E.

Yogyakarta, Indonesia

- Relevant Coursework – Internet of Things, Microcontrollers, Analog Electronics, Statistical Signal Processing, Machine Learning

Expected Graduation Date: June 2022

Cumulative GPA: **3.61/4.00**

RESEARCH PROJECTS

Clinical Decision Support System, Thesis

Yogyakarta, Indonesia

- Research on support system architecture to provide clinical information of lung cancer by identifying nodules in X-Ray images using machine learning

2021 – Present

Jagawana, Bangkit Incubation Program by Google

Yogyakarta, Indonesia

- Co-managed a \$10,000 research grant, ensured completion of all project deliverables
- Assembled an IoT model for distinguishing chainsaws sounds by utilizing AI on a cloud server

2021 – Present

WORK EXPERIENCE

PT. Hamilton Prima Indonesia, Backend Engineer

Jakarta, Indonesia

- Develop and design a backend architecture for property rental application
- Generated unit testing and documentation for the Android teams

2021 – Present

Bangkit Academy by Google, Machine Learning Trainee

Yogyakarta, Indonesia

- Performed data preparation, data preprocessing and created a CNN model which can detect chainsaw sounds from Mel Spectrogram data
- Developed an illegal logging solution by integrating machine learning and IoT sensors and attained the top 15 final projects from the total of 483 teams
- Graduated with distinction (top 10% performer) among 3000 participants from 250 universities in Indonesia

2021 - 2021

PT Widya Immersive Technology, Hardware Engineer Intern

Yogyakarta, Indonesia

- Collaborated on a multi-disciplinary project aimed at developing medical stations to provide easy self-checkup
- Integrated glucose and cholesterol sensors to a medical station using Bluetooth communication

2021 – 2021

Gadjah Mada Aerospace Team, Electrical Engineer

Yogyakarta, Indonesia

- Collaborated with nine other members to build a rocket payload for collecting atmospheric data, representing Indonesia as the 2nd place winner at AAS International CanSat Competition
- Engineered, tested, and integrated the electrical sub-system for the rocket payload and the ground control system

2018 – 2020

LEADERSHIP & ACTIVITIES

- | | |
|---|-----------------------|
| KKN-PPM Gajah Mada University (Community Empowerment & Service) | Yogyakarta, Indonesia |
| • Initiated a design training to local youth about digital branding and empower them with graphic design skills | 2021 |
| FINDIT! UGM, Coordinator of Multimedia | Yogyakarta, Indonesia |
| • Coordinated with other committee members to organize a national competition on Information Technology topics | 2019 – 2020 |
| • Directed a team of 6 designers to create art media for publication and decorations | |
| Bimbingan Antar Teman, Student Mentor | Yogyakarta, Indonesia |
| • Volunteered to mentor 20 high school students in preparing university entrance exams | 2019 – 2020 |

AWARDS AND ACHIEVEMENTS

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|---|------|
| 1st Runner Up Winner at Hackathon x Business Case Competition | 2021 |
| 180 Degree Consulting UGM | |
| 1st Runner Up Winner at Hackathon 2.0 Technoscape | 2021 |
| Binus Computer Club (BNCC) | |
| 2nd Place Winner at AAS International CanSat Competition | 2020 |
| American Astronautical Society (AAS) | |

RELEVANT PROJECTS

- | | |
|--|------|
| Itin | 2021 |
| A trip planning web application to easily make, share, and browse itineraries. Built with Django and Nuxt.JS | |
| Crypto Tracker | 2021 |
| An automated telegram bot to alert a price entry and breakout using algorithmic trading | |
| Shop Inventory System | 2020 |
| A commisioned project to provide inventory management and price listing for a local shop with Django | |

TECHNICAL SKILLS

- **Programming:** Python, Django, Flask, Arduino C/C++, DevOps with VPS and GCP, Git, SQL, HTML/CSS/JS
- **Electronics:** PCB Layout & design with Eagle and KiCad, MCUs
- **Other:** Adobe Illustrator and Photoshop and project management

LANGUAGES

English: Proficient (IELTS Score of 7.5)
Indonesia: Native