

Nico Renaldo

Indonesia • nicorenaldo@mail.ugm.ac.id • nicorenaldo.com • +62 81254130488

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: **3.60/4.00**

RESEARCH INTERESTS

Integrations of hardware and software to connect with nature, especially on marine life

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 were on time
- 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 feature
- 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

2020 – 2020

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

FINDIT! UGM, Coordinator of Multimedia

Yogyakarta, Indonesia

- Coordinated with other committee members to organize a national competition on Information Technology topics
- Directed a team of 6 designers to create art media for publication and decorations

2019 – 2020

Bimbingan Antar Teman, Student Mentor

Yogyakarta, Indonesia

- Volunteered to mentor 20 high school students in preparing university entrance exams

2019 - 2020

AWARDS AND ACHIEVEMENTS

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

RELEVANT PROJECTS

TECHNICAL SKILLS

- Programming languages and frameworks: C, Python, Django, TensorFlow
- Computer-aided design/engineering: Eagle, KiCad
- Other: product management, illustration, photo manipulation

LANGUAGES

English: Proficient (IELTS Score of 7.5)

Indonesia: Native

Hakka: Native