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: **3.60/4.00**

RESEARCH INTERESTS

Motion tracking and computational imaging

RESEARCH PROJECTS

Clinical Decision Support System, Thesis — Yogyakarta, Indonesia — 2021 – Present
- Research on support system architecture to provide clinical information of lung cancer by identifying nodules in X-Ray images using machine learning

Jagawana, Bangkit Incubation Program by Google — Yogyakarta, Indonesia — 2021 – Present
- 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

WORK EXPERIENCE

PT. Hamilton Prima Indonesia, Backend Engineer — Jakarta, Indonesia — 2021 – Present
- Develop and design a backend architecture for property rental application
- Generated unit testing and documentation for the Android teams

Bangkit Academy by Google, Machine Learning Trainee — Yogyakarta, Indonesia — 2021 - 2021
- 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

PT Widya Immersive Technology, Hardware Engineer Intern — Yogyakarta, Indonesia — 2021 – 2021
- 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

Gadjah Mada Aerospace Team, Electrical Engineer — Yogyakarta, Indonesia — 2018 – 2020
- 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

LEADERSHIP & ACTIVITIES

KKN-PPM Gadjah 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 2019 – 2020
  on Information Technology topics
- 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

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

- **Web Development**: Python, Django, Flask, Google Cloud Platform, Git, SQL, HTML/CSS/JS
- **Electronics**: PCB Layout & design with Eagle and KiCad, MCUs, Embedded Programming with C and Python
- **Other**: Adobe Illustrator and Photoshop and project management

LANGUAGES

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