ZAKI MAULANA RABBANI

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I hold a Bachelor of Electrical Engineering from Universitas Padjadjaran. I have a strong interest in Artificial Intelligence and website development. Proficient in Python, AI development, and basic tools for website development. I have experience as a laboratory assistant and have worked on projects as an AI engineer and UI developer.

- EDUCATION -

Universitas Padjadjaran – Sumedang, Indonesia

Bachelor of Electrical Engineering   *August 2019–March 2024*
- Final GPA: 3.68/4.00
- Active in organizations and committees at association, faculty, and university levels.

- EXPERIENCE -

PT. Syergie Indo Prima – Bandung, Indonesia

Research Intern   *January 2022 – March 2022*
- Design and develop a prototype for Fast Fourier Transform-based distance relay protection system for power transmission simulation using Matlab/Simulink.
- Learned basic program of FPGA.

Universitas Padjadjaran – Sumedang, Indonesia

Laboratory Assistant of Basic Electrical Engineering | LINK   *October 2020 – December 2020*
- Mentored and guide five students in practicum with about 7+ modules using MultiSIM software.
- Prepare quizzes for practicum participants and evaluate results reports.

Laboratory Assistant of Digital Electronics | LINK   *February 2021 – June 2021*
- Mentored and guide six students in practicum about the basics of logic gates and making circuits.
- Prepare quizzes for practicum participants and assess practicum results reports.

- TRAINING & COURSE -

Orbit Future Academy (MSIB Program) – Online

Artificial Intelligence Mastery Program | LINK   *August 2022 – December 2022*
- Independent study program that focuses to study artificial intelligence such as data science, computer vision, natural language processing, and reinforcement learning.
- Design and develop "Kasya" for final project.

Coding Studio – Online

Website Development | LINK   *May 2024 – June 2024*
- Studied about front-end web using HTML, CSS, and JS.
- Basic MySQL database knowledge using MySQL Workbench.
- Basic knowledge about developing the web using Laravel 9 frameworks.
- Developing an e-commerce and portfolio website for the final project.

- OTHER EXPERIENCE -

BE HMTE FMIPA Universitas Padjadjaran – Sumedang, Indonesia

Head of Department Media and Information   *January 2021 – December 2021*
- Heading four staff and one vice.

- Supervised and directed 4 work programs and responsible for 5+ social media platforms.
- Involved and organized two days of events of a media workshop with 90+ participants.

Staff of Department Media and Information | LINK   *January 2020 – December 2020*
- Designing posts on social media of HMTE.
- Responsible and editor for the Electrical Engineering Podcast Season 1 program.

Head of PDD Division, KPU HMTE   *October 2019 – December 2019*
- Responsible for design and posting for social media that involved the election head of HMTE.
- Do the documentation on the two days of the main event.

BEM Kema FMIPA Universitas Padjadjaran – Sumedang, Indonesia

Head of Technical Division, Room Class Media 2021   *June 2021 – October 2021*
- Heads of five staff.
- Responsible for technical matters and presentations during the webinar and workshop event with more than 200 participants

BEM Kema Universitas Padjadjaran – Sumedang, Indonesia

Staff of Support Team, Prabu 2021 | LINK   *June 2021 – October 2021*
- Responsible for facilitating and guiding about 30 new students to introduce Universitas Padjadjaran.
- Engage with committees with 500+ members and nearly 300 division members.

- P R O J E C T S -

SAVI Robot Project – Sumedang, Indonesia

AI Engineer & UI Developer   *May 2022 – January 2024*
- The SAVI (smart vehicle) robot is a robot that can navigate and help humans carry items.
- Help develop the design and electrical circuit of the robot.
- Responsible for developing manual control with hand gestures and human-following using an AI-based camera.
- Developing a user interface website for deploying the AI model and controlling the system.

Kasya (Kata Isyarat) Project – Online

AI Engineer   *October 2022 – December 2022*
- Kasya (kata isyarat) is a project to develop software AI for translating Indonesian sign language (Bisindo) in real-time.
- Responsible for developing an AI model using a pre-train model for recognizing the sign language, creating datasets, and deploying on the website.

- S K I L L S -

- Languages: Python, PHP, SQL, HTML, CSS, JS, C
- Frameworks: Laravel 9, Bootstrap, Flask, Tensorflow, PyTorch
- Tools: Arduino, MySQL Workbench, Git & Github
- Platforms: Microsoft Office, Jupyter Notebook, Visual Studio Code, Thonny, Arduino IDE
- Soft skills: Collaboration, Problem Solving, Creativity, Adaptability, Active listening, Time & project management, Analytic Reasoning, Scheduling.