

AHMAD 'AFIEN ZIDAN

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Electrical Engineering graduate from Airlangga University (CGPA 3.72/4.00) with a strong passion for automotive EV. Alongside experience in EV projects, I have built robust skills in web development and software engineering through several IT bootcamps. Proficient in front-end technologies such as ReactJS and CSS Tailwind as well as backend development using Node.js, Express, SQL & MongoDB databases. I am eager to integrate cutting-edge digital solutions with automotive technology and beyond.

EDUCATION

AIRLANGGA UNIVERSITY

Bachelor of Electrical Engineering

Cumulative GPA : 3.72/4.00

Surabaya, Indonesia

Sep 2020 – July 2024

- **Final Project** : Design Of Controller Area Network Communication Protocol in Battery Management System for Electric Vehicles
- **Relevant coursework** : Drive Control, System Automation, Design & Implementation Engineering Drawings, Intelligent Control.

WORK EXPERIENCES

PT Braja Elektrik Motor

Surabaya, Indonesia

Electric vehicle, Conversion ICE to BEV and electric motors research and manufacturing company.

Researcher

Jan 2024 - Now

- Supported Nextion HMI project for EV2W using CAN communication.
- Assisted in publishing research on “Used EV2W” and “Effect of BEV Connector with SPKLU,” and ongoing SPBKLU research.

General Affairs Officer

Sep 2024 – Dec 2024

- Managed conversion project for 275+ vehicles, including documentation, testing, and coordination with authorities.
- Oversaw procurement processes and secured IDR 2.75 billion in government incentives.

Electrical Engineer Intern

Dec 2021 – Feb 2022

- Executed conversion projects of 2+ ICE motorcycles to EV2W.

PT Industri Kereta Api (Persero)

Madiun, Indonesia

Railway manufacturing company, with a project to develop Electric Buses for the Bali G20 Summit

Research and Development Intern

Aug 2022 – Dec 2022

- Developed wiring maps for 40+ components and documented vehicle load calculations.
- Revised 15+ electrical schematics and maintained electrical systems for 25+ electric buses.

ORGANIZATIONAL

Team Electric Vehicle on Study (EV-OS) Airlangga University

Surabaya, Indonesia

Co-Founder & Electrical Manager

Apr 2022 – Dec 2023

- Managed schematics, QC, progress reports, and budgets for 3+ projects with 100+ components from 20+ suppliers.

Faculty Legislative Council

Surabaya, Indonesia

Legislative Commission

Jan 2022 – Jan 2023

- Drafted 4 organizational regulations through stakeholder collaboration and consensus building.

Society of Renewable Energy (SRE) Airlangga University

Surabaya, Indonesia

Media and Marketing Officer

Jan 2021 – Dec 2021

- Created 15+ renewable energy content; increased Instagram followers by 100+ through effective social media management.

PROJECT EXPERIENCES

Job Vacancy Website – NextStep (ReactJS Project)

Jan 2025

- Developed a responsive job portal using ReactJS with API integration and CRUD functionality; earned the Best Final Project award.
- Get web link here [NextStep](#).

Effectiveness Evaluation of EV4W Electric Charging Connectors according to Permen ESDM

Jan – April 2025

- Analyzed 2022–2023 data, including CKD, CBU, and wholesale market figures from GAIKINDO.
- Evaluated connector usage and efficiency, resulting in a comprehensive evaluation report with technical recommendations.

Speaker – Electric Motorcycle Conversion Training, PPSDM KEBTKE

Feb 2025

- Presented technical insights during a 3-day session at PPSDM KEBTKE with 26 participants.

Used E2W Vehicles Economic Market Review in Indonesia, Collaborate with ENTREV from ESDM

Sep – Oct 2024

- Researched regulations, incentives, and consumer trends for used E2W vehicles in urban areas.

Design and build Electric Motorcycles (SAGA and ESA) for PLN ICE 2023 from Scratch <ul style="list-style-type: none"> Created 5 detailed schematics and designed key systems for award-winning EVs (SAGA and ESA), achieving top speeds of 170km/h and 95km/h. 	June – Nov 2023
Conversion of Yamaha Byson ICE Motorcycle into Electric Motorbike (By-E) for PLN ICE 2022 <ul style="list-style-type: none"> Converted an ICE motorcycle to electric, achieving competitive performance and securing 4th place. 	July – Oct 2022
Assisting in the “Bus Listrik Merah Putih” project for the G20 Summit in Bali with PT INKA <ul style="list-style-type: none"> Assisted with maintenance and design of electrical systems for electric buses at the G20 Summit. 	Aug – Dec 2022
Converting Vespa PX-150 into an Electric Vespa <ul style="list-style-type: none"> Installed wiring and modified the frame, significantly enhancing performance metrics. 	Dec 2021 – Jan 2022
Development of Electric Bicycles and Solar Panel Shelter for Community Service <ul style="list-style-type: none"> Developed 4 electric bicycle models and maintained a solar panel shelter with reliable energy output. 	Des 2021 – Sept 2023

TECHNICAL SKILLS

Skills : Electric Vehicle, Wiring Diagram, Project Management, Design Engineering, Teamwork, Time Management, Communication, Problem Solving, Work Ethics, Adaptive, Neat Work, Research.	Languages: Bahasa Indonesia (Native); English (ELPT Score 453).
Software : AutoCAD Electrical, Matlab, Proteus, Autodesk EAGLE, Picoscope, MS Office, Nextion Editor, Postman, VS Code.	Other Skills: UI/UX Design with Figma, CSS (Tailwind & Bootstrap 5), HTML, MVC, Backend SQL & NoSQL with Express, Node JS & MongoDB, Frontend with React JS.
Microcontroller : STM32, Arduino, ESP Series .	
Programming Languages : C++, C, JavaScript, TypeScript.	

ADDITIONAL

Courses : <ul style="list-style-type: none"> SYNRGY Academy Batch 7 (36.8/100) Sanber Code React JS - Web Frontend Development Batch 63 (Score 97/100, Best Final Project) MERN Stack Sanber Campus X ITB Batch 5 (On-going) WPU Ramadhan Camp – Kajian React.js Dari Dasar Hingga Mahir WPU Course – Belajar MERN Stack 	Mar – Aug 2024 Jan 2025 Feb – May 2025 Mar 2025 Jan 2025 - Now
Interests : Electric Vehicle, Research, Vehicle Conversion, Electrical Diagram and Wiring, Electrical Draft, Project Management, Microcontroller, Control System, Fuzzy Logic, Web Development, Front-end Development.	

Honor & Awards:

- 1st Place in PLN ICE 2023
- Top 10 in PLN ICE 2023
- 4th Place in PLN ICE 2022
- 2nd Place in Essay Competition Held by Universitas Pendidikan Ganesha.
- Best Final Project and 2nd Best Student Sanber Code React JS - Web Frontend Development Batch 63