FANDI ADINATA

Electrical Engineer, Embedded System Engineer,
Internet of Things Engineer

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CAREER OBJECTIVE

Fandi is an experienced electrical engineer with expertise in electronic circuit design, IoT development, hardware design, and embedded system firmware programming. He has recently deep-dived and hands-on into blockchain technology use cases, such as storing real-world hardware data to the blockchain. Lastly, Fandi works as a researcher of fast-charging technology at Lectro. Has a role in developing hardware and firmware of battery chargers that support fast charging technology for advanced batteries, analyzing battery performance, and compiling reports. For the long journey, Fandi is also looking to leverage experiences into a role as a hardware designer, embedded system engineer, Internet of Things Engineer, or even a blockchain developer.

WORK EXPERIENCE

RESEARCH AND DEVELOPMENT STAFF – Lectro – July 2022 – Present

- Research fast-charging technology development for lithium-ion battery packs.
- Developed DC-DC battery charger for electric motorcycle battery pack with an efficiency of 90%.
- Improve electric motorcycles battery pack charging time from 4 hours to only 1 hour.
- Successfully developed parallel-supported DC-DC battery charger for rapid custom high current application.
- Formulated and implemented improvements on performance for the fast-charging-purpose battery pack to achieve high charging current up to 3C.

IOT AND HARDWARE ENGINEER – Enerma – Mar 2022 – Dec 2022

- Successfully developed IoT-based smart plug that enables energy monitoring and usage control from a smartphone.
- Complete two custom hardware and software project related to IoT and robotics.

ELECTRICAL STAFF – SIAB Indonesia - Sep 2021 – Dec 2021

- Successfully developed the electronic system of SIAB's first-generation IoT water filtration system, which supports data acquisition for real-time monitoring and machine learning training data.

IOT ENGINEER INTERN – SIAB Indonesia - Jan 2021 – Apr 2021

- Developed the first generation of SIAB IoT water quality monitoring system that allows users to monitor water quality from their smartphone via a website.

EDUCATION

SEBELAS MARET UNIVERSITY - Surakarta, Indonesia – 2018 – 2023

- Bachelor's in Electrical Engineering (GPA: 3.58/4.00)

SKILLS

Programming Skills
C, Python, Javascript.

Languages
Fluent in Indonesian Bahasa. Also understand basic English.