



# FARHAN JIHAD ARRIDHA

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I am currently working as an embedded engineer with more than a year of experience. It focuses on embedded systems, IoT end device architecture, IoT software, Network Infrastructure, and VM Specialist. I am very interested in technological advances. I believe daily problems can be solved through technological innovation. Negotiation, persuasion and communication are my soft skills in the world of work.

## Work Experiences

### ISIXI Pte Ltd. - Gambas Ave, Singapore

Mar 2023 - Present

#### System Engineer

ISIXI is a computing company, specialising in Digital Transformation with the design and manufacture of IoT Devices, Cryptography/ Security and Advanced Analytics.

- Build a Chat app using XMPP on OpenBSD
- Build a server for website needs on OpenBSD
- Enterprise database migration from FreeBSD to OpenBsd

#### Embedded Engineer

Jan 2022 - Present

- Analyze and debug project development both hardware and firmware on Microcontroller.
- Made a Battery Management System circuit with an efficient system and low power usage with hardware component logic.
- Developed a project in the field of NFC for NFC Tag.
- Developed Image processing project(OpenCV) on MCU using C programming language.
- Developing Image processing on Beaglebone black using OpenCV on a debian Linux system
- Create schematic for multiple projects using Eagle or EasyEDA
- Looking for ideas and market research to launch new products
- Build environment on Openbsd to implement XMPP chat app

### CV Narutindo Tech - Bandung, Indonesia

Jan 2020 - Sep 2020

#### Internship( Software engineer)

Narutindo Tech is a startup that focuses on consulting industrial automation, robotics, information systems, and artificial intelligence

- Design a UI for River Monitoring at Citarum Harum(using software processing 3 on Intel Nuc using the java programming language)
- Design a Weather Station System Monitoring for PPTK Gambung Tea Plantation(using several digital sensors and integrated with a microcontroller)

### PT. Telkom Indonesia - Jakarta, Indonesia

Jul 2021 - Dec 2021

#### Internship ( IoT Engineer)

PT Telkom Indonesia (Persero) which is engaged in information and communication technology (ICT) services and telecommunications networks in Indonesia.

- Make IoT based smart plug for industrial appliances(Designed Smart plug system logic(ESP32, HLW8012 and other component), PCB designed and PCB printed used SMD components)
- Software appliances for smart plug system(used MIT APP INVENTOR and API Management for functional Wireless Smart Plug )

## Education Level

### Universitas Telkom - Bandung, Indonesia

Sep 2018 - Aug 2021

#### Bachelor Degree in Electrical Engineer, 3.28/4.00

- Focusing on Embedded System(Weak Current)
- Final Task : Web-based weather station system Monitoring for weather parameter.

## Organisational Experience

### INACOS(Information and Autonomous Control System) - Bandung, Indonesia

Sep 2018 - Feb 2021

#### Assistant Research

- Make administration related to electric car championship
- Making a body for an electric car
- Assembling a battery for an electric car

*Chairman*

- Lead an organization to increase athletes' abilities and interest on Taekwondo Telkom
- Won the best UKM in sports in the annual campus organization award

**Skills, Achievements & Other Experience**

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- **Certification** (2022): Node.js, Express, MongoDB & More: The Complete Bootcamp 2022(Udemy Course)
- **Certification** (2022): Memulai Pemograman dengn Python(Dicoding)
- **Certification** (2022): Belajar Machine Learning untuk Pemula(Dicoding)
- **Certification** (2022): Belajar Dasar Visualisasi Data(Dicoding)
- **Certification** (2022): Introduction to Embedded Machine Learning(Coursera)
- **Certification** (2022): Introduction to the Internet of Things and Embedded Systems(Coursera)
- **Hard Skills:** Python programming language
- **Hard Skills:** Machine Learning
- **Hard Skills:** SQL programming language
- **Projects** (2021): Build an automatic weather monitoring system with sensor parameters of temperature, humidity, light intensity and air pressure that can be monitored via the web in real time using the MySQL database on Xampp
- **Projects** (2021): Created a smart plug prototype for smart home applications with timer, power monitoring and remote control features using the IoT method and Antares as a data reservoir using ESP32 and several components related to these features
- **Projects** (2022): Making a prototype passport scanner for MRZ extraction on esp32 with OpenCV using ESP-IDF.
- **Projects** (2022): Make firmware for NFC read and write on pn532 module with esp32 which is intended for NFC Tag using C programming language.
- **Projects** (2020): Created an UI/UX design to monitor The Citarum harum river with parameters of metal content and water pH. Using processing 3 software with Java language on intel nuc
- **Achievements** (2018): Gold Medal Taekwondo ITN Championship