

FIKRI HAIKAL

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SUMMARY

I am currently an IoT Engineer focused on building smart connected devices. In my daily work, I use C++, Python, Flutter, and Linux to develop devices, systems, and supporting applications. I am passionate about creating reliable and efficient technology solutions that enhance automation and connectivity.

WORK EXPERIENCE

Robotics Team, Politkenik Negeri Jember

Jan 2019 - Okt 2021

- Developed and optimized code for autonomous and remote-controlled robots
- Achieved 2nd place in Regional 4 of ABU Robocon Contest

Freelance Developer

Jan 2022 - Feb 2024

- Developed IoT solutions, integrating hardware and software for smart systems
- Built and maintained web applications using Laravel
- Implemented image processing techniques using Python for various applications
- Developed mobile applications with Flutter

IIT Support Field Technician

Jun 2023 - Dec 2024

- Maintained and troubleshoot Raspberry Pi-based monitoring systems
- Diagnosed and resolved connectivity issues to minimize downtime
- Coordinated with backend teams to optimize system performance

IoT Engineer

May 2025 - Now

Building IoT products using C++, Python, and Flutter. I also work with Linux to develop reliable and connected devices.

EDUCATION

Bachelor of Applied Science in Computer Engineering

Sep 2022 - Januari 2024

Politeknik Negeri Jember

- Specialization in Application Development with Flutter, Python, and Laravel
- Bachelor's Thesis "Monitoring System for Plant Weight on Farmbot Using Digital Imaging with YOLO and Polynomial Regression".

Diploma in Computer Engineering

Sep 2018 - Oktober 2021

Politeknik Negeri Jember

- Specialization in Robotics, Embedded Systems, and IoT
- Final Project "Implementation of Inverse Kinematics on a Three-Wheel Holonomic Mobile Robot Using the Fuzzy-PID Method"

TECHNICAL SKILLS

- **Programming Language** : Python, C/C++, Go, Dart
- **Operting System** : Linux (Ubuntu, Raspberry Pi OS), Windows
- **Frameworks** : Flutter, Laravel
- **IoT & Embedded Systems** : ESP32, Arduino, Raspberry, STM32
- **Image Processing** : Yolo, CNN, Mediapipe, opencv