

# FIKRI HAIKAL

Jember, East Java • 0851-5771-1059 • fikrihaikal568@gmail.com  
fikrihaikal.vercel.app

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## SUMMARY

I am a dedicated IoT Engineer with a strong background in computer and information technology, holding a Diploma in Computer Engineering (D3) and a Bachelor's Degree in Informatics Engineering (D4). I specialize in IoT development, particularly with ESP32 and Raspberry Pi devices. Additionally, I have experience in robotics and possess strong skills in Linux. With extensive expertise in Python development, I also excel in image processing. My goal is to create innovative and efficient technology solutions that drive progress and automation.

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## WORK EXPERIENCE

### Robotics Team, Politkenik Negeri Jember

Jan 2019 - Okt 2021

- Developed and optimized code for autonomous and remote-controlled robots
- Collaborated with mechanical and electronics teams to integrate software and hardware seamlessly
- Achieved 2nd place in Regional 4 of ABU Robocon Contest

### Freelance Developer

Nov 2021 - Present

- 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 - Nov 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

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## 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"

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## TECHNICAL SKILLS

- **Programming Language** : Python, C/C++, PHP, 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