Angga S. Wahyudin

Software Engineer

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Summary

I am a dedicated and results-driven technology professional with a strong educational background in Electrical Engineering from Universitas Siliwangi. My passion lies in leveraging cutting-edge technologies to create innovative solutions that address real-world challenges. With 2 years of experience as an IoT Engineer and 1 year as a Flutter Developer, I have honed my skills in both hardware and software development.

Professional Experience

Mobile Developer | PT PITIK DIGITAL INDONESIA | Feb 2023–Apr 2024

As a Mobile Developer, I significantly contributed to the mobile engineering division. Here are the key aspects of my role:

- Developed two apps internal app and layer app from scratch using the Flutter framework. Successfully deployed the app to both the Google Play Store and Apple App Store. Leveraged state management techniques, specifically GetX and Riverpod, to efficiently manage app state
- Ensured the smooth functioning of existing app Pitik Broiler Farm using java. Managed maintenance tasks for this native app. Conducted regular updates, bug fixes, and feature enhancements.
- Worked closely with cross-functional teams, including designers, backend developers, and QA engineers. Aligned efforts to achieve common goals, ensuring seamless communication and efficient project execution.
- Applied Jenkins pipelines for continuous integration and continuous deployment (CI/CD).
- Managed code updates for the Flutter project. Ensured smooth deployment of new features and bug fixes to end-users using shorebird.

IoT Engineer | PT PITIK DIGITAL INDONESIA | Mar 2022–Feb 2023

As an IoT Engineer, I contributed to groundbreaking projects. Here are the key highlights of my role:

- Designed and implemented firmware for smart controllers using ESP32 and STM32 microcontrollers.
- Leveraged C and C++ programming languages for efficient and reliable code.
- Developed custom communication protocols using MQTT and ProtoBuf for seamless data exchange.
- Utilized FreeRTOS for real-time multitasking and efficient resource management.
- Created detailed schematics and PCB layouts for various hardware components. Utilized EasyEDA for schematic design and layout. Focused on optimizing space,

minimizing noise, and ensuring signal integrity. Designed two-layer PCBs for cost-effectiveness.

IoT Mentor - Part Time | PT Samsung Electronics Indonesia | Mar 2023–Oct 2023

As an IoT Mentor, I shaped the skills of young talents:

- Guided diverse teams from various regions in Indonesia during the Samsung Innovation Campus event.
- Collaborated with Skilvul to foster talent development.
- Led teams through the entire IoT project lifecycle, from initial design to project realization.
- Ensured meticulous planning and execution.

Electrical Engineering Troubleshoot | PT DANA PURNA INVESTAMA | Sep 2021–Jan 2022

During my tenure at PT DANA PURNA INVESTAMA, I engaged in critical electrical engineering tasks:

- Equipment Damage Analysis: Delved into intricate electrical equipment issues, diagnosing faults, and proposing effective solutions.
- Strategic CCTV Planning: Collaborated with security teams to strategically design a comprehensive CCTV system for the building.
- Power Monitoring Expertise: As a certified Schneider engineer, I specialized in power monitoring, ensuring optimal performance and safety.

Internship IoT Engineer | PT XL AXIATA Tbk. | Jun 2020–Aug 2020

My internship at PT XL AXIATA Tbk. was a transformative experience:

- IoT Device Creation: Designed and developed an innovative Internet of Things (IoT) device specifically for salt monitoring.
- Mobile App Development: Crafted an Android app called *Salt-e* using Flutter, enhancing user accessibility and data visualization.
- Microcontroller Leadership: Led the software development efforts for microcontroller-based devices, ensuring seamless integration.

Head of Engineering | TASIK INOVASI COMMUNITY | Jul 2019–Jun 2021

As the Head of Engineering at TASIK INOVASI COMMUNITY, I orchestrated technological advancements:

- Holistic Leadership: Managed three critical departments—Software, Hardware, and Power—ensuring cohesive collaboration.
- Local IoT Initiatives: Spearheaded impactful IoT projects in collaboration with local government bodies and businesses in Tasikmalaya.

Skills

- **Programming Languages:** Python, C++, Dart, JAVA
- **Frameworks and Technologies:** Flutter, MQTT, RESTful APIs, FCM, Database
- **Hardware and IoT:** Sensor networks, Raspberry Pi, Arduino, Espressif

- **Software Development:** Agile methodologies, Git, JIRA
- **Problem-Solving:** Analytical thinking, troubleshooting, and solution design

EDUCATION

Bachelor of Science in Electrical Engineering

Universitas Siliwangi | Graduated: 2019