Dhimas Ardinata Putra Pamungkas

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PROFESSIONAL SUMMARY

Final-year Bachelor of Applied Engineering student in Telecommunication Engineering with 6 months of hands-on IoT system implementation experience. Experienced in device configuration, field deployment, Wi-Fi/GPRS connectivity, break/fix troubleshooting, OTA updates, remote monitoring, and technical documentation. Seeking an entry-level Systems Integration / Implementation Engineering role to grow in networking, data center, security, and enterprise infrastructure.

EDUCATION

Politeknik Negeri Semarang | *Semarang, Indonesia* | *2022 – 2026 expected*
Bachelor of Applied Engineering in Telecommunication Engineering | *GPA: 3.79/4.00*

- Academic status: Thesis defense completed; one remaining course in progress.
- Relevant coursework: Computer Networks, Data Communication, Embedded Systems, IoT Systems, Telecommunication Systems, RF Engineering.

WORK EXPERIENCE

CV. OmahIoT | *Semarang, Indonesia* | *Jan 2025 – Jul 2025*
IoT Engineer Intern

- Supported end-to-end implementation of IoT monitoring systems for agricultural clients, covering site survey, device configuration, field deployment, testing, and documentation.
- Configured and programmed ESP32, ESP8266, TTGO T-Call, and ATmega328p devices for sensor data acquisition, actuator control, and remote monitoring.
- Handled break/fix troubleshooting for Wi-Fi/GPRS connectivity, sensor readings, data transmission, and device reliability issues during deployment and operation.
- Implemented local data caching, watchdog/reconnect handling, and OTA firmware update mechanisms to improve system reliability.
- Prepared technical documentation, deployment notes, and troubleshooting findings for installed IoT systems.

SELECTED PROJECTS

Industrial Climate Control System for Orchid Greenhouse | CV. OmahIoT Client Deployment

- Implemented a distributed greenhouse monitoring and control system using 10 ESP8266 sensor nodes and 2 ESP32 gateways.
- Integrated cloud-edge fallback, local store-and-forward caching, OTA updates, HTTPS REST API communication, and relay-based control for greenhouse equipment.
- Supported field deployment, testing, troubleshooting, and validation of sensor readings, device connectivity, and API data transmission.

Campus Computer Network Development Simulation | Academic Project

- Designed and simulated a campus network for 8 buildings using Cisco Packet Tracer.
- Implemented IP addressing, VLSM, VLAN segmentation, router/switch configuration, DHCP, and connectivity validation.

Hybrid Rainfall Monitoring Gateway | CV. OmahIoT Client Deployment

- Developed firmware for a TTGO T-Call gateway with Wi-Fi, GPRS, and Bluetooth Serial diagnostics for remote rainfall monitoring.
- Implemented fallback connectivity and on-site troubleshooting workflow to support field maintenance.

Hydroponic Nutrient and pH Dosing System | CV. OmahIoT Client Deployment

- Developed a controller-based fertigation system using real-time pH and EC sensor data.
- Implemented actuator control, sensor validation, and system monitoring for agricultural automation.

CERTIFICATIONS

- TOEIC Listening & Reading: 845/990, ETS, valid until Nov 2027
- Cisco Networking Academy, CCNA: Switching, Routing, and Wireless Essentials, Nov 2024
- Introduction to Cloud Computing, Politeknik Negeri Semarang Microcredential, May 2026

TECHNICAL SKILLS

Systems Integration & Deployment: Device configuration, field deployment, testing, troubleshooting, technical documentation, OTA updates, remote monitoring.

Networking: IP addressing, subnetting, VLAN, DHCP, DNS, routing/switching basics, Wi-Fi, GPRS, HTTP/HTTPS, REST API, MQTT, Cisco Packet Tracer.

Embedded & IoT: Raspberry Pi 4 Model B, ESP32, ESP8266, TTGO T-Call, ATmega328p, SIM800L, sensors, relay control, RTC, SD Card, LittleFS.

Programming & Tools: C++, Python, JavaScript, Git, GitHub, PlatformIO, Arduino IDE, CMake.

Infrastructure Basics: Raspberry Pi OS/Linux basics, SSH, basic command line, log reading, basic service monitoring.

LANGUAGES

Indonesian: Native | **English:** Professional Working Proficiency, TOEIC Listening & Reading 845/990