MUHAMMAD ADIAN RAMADHAN

Sidoarjo, East Java, Indonesia | +62 896-7576-8445 | bangadianr@gmail.com
Portfolio: adianr.lovable.app | LinkedIn: linkedin.com/in/adianr

PROFESSIONAL SUMMARY

Computer and Network Engineering student with hands-on lab and project experience in MikroTik networking, routing and switching, VLANs, DHCP, OSPF, network monitoring, and firewall configuration. Holds MTCNA and MTCRE certifications CCNA ITN, SRWE, ENSA, with additional Cisco networking and Fortinet security training. Experienced in project-based network implementation, peer training, and telecommunications infrastructure exposure. Seeking an Junior Network Engineer, NOC Engineer, or Network Support position.

TECHNICAL SKILLS

Networking: TCP/IP, IPv4 addressing, subnetting, routing and switching, VLANs, DHCP, NAT, OSPF, VPN, L2TP, PPPoE, STP, Load Balancing, Failover, HSRP, QoS, ACL, ARP table verification, and network troubleshooting.

Network Devices and Security: MikroTik RouterOS, Winbox, Cisco IOS lab fundamentals, MikroTik firewall configuration, FortiGate firewall fundamentals, FortiOS CLI Basic, FortiManager integration, firewall staging, firmware updates, and port configuration.

Network Monitoring and Management: Zabbix, The Dude, MRTG, Netwatch, WAN connectivity monitoring, network interface monitoring, SD-WAN Fortinet monitoring, and Performance SLA monitoring.

Monitoring and Lab Tools: Cisco Packet Tracer, GNS3, and PNETLab, VMware Workstation, VirtualBox, MobaExtrem, EnSP Free.

Telecommunications Infrastructure Exposure: Huawei OLT, OTN, Metro systems, ODF/ODP/OTB, fiber-optic infrastructure, OTDR, OPM, ATS, gensets, rectifiers, DCDB/DCPDB, and backup batteries.

Operating Systems: Windows and Linux fundamentals, including basic command-line operations.

CCTV Systems: CCTV camera installation, basic DVR/NVR configuration, camera connectivity setup, and basic troubleshooting of CCTV systems.

EXPERIENCE

Network Support Engineer
PT DigiServe | Project for PT Indomarco
Fortinet Staging & Migration Project | November 2026

- Supported a large-scale Fortinet migration and activation project covering more than 2,000+ sites.
- Performed hardware preparation, including unboxing, packaging, and device mapping.
- Managed hardware inventory and documentation by recording serial numbers and scanning QR codes.
- Conducted Fortinet device staging, including firmware updates, port configuration, and FortiManager integration.

- Provided remote technical guidance to Field Engineers (FE) throughout the device installation, migration, and activation processes, while coordinating with the EDP team to facilitate IP address allocation.
- Performed remote monitoring and connectivity verification of Fortinet devices through WAN IP addresses, including ARP table inspection using CLI (`get system arp`), network interface status checks, and SD-WAN and Performance SLA monitoring.
- Completed project closure documentation through the company's internal application, including photographic evidence collection and IP address documentation for each site.

Network Infrastructure Intern
PT Telkom Infrastruktur Indonesia — Area 3, District Sidoarjo
OM & Project Inside Plant | September 2026 – Oktober 2026

- Supported routine server-room housekeeping activities, including rack-area cleaning and server fan and filter maintenance.
- Gained exposure to telecommunications infrastructure involving Huawei OLT, OTN, OSN/Metro systems, and fiber distribution components.
- Observed optical power measurements using an Optical Power Meter (OPM) and learned OTDR-based fiber distance and attenuation testing.
- Learned the fiber-optic splicing workflow, including cable preparation, cleaning, cleaving, fusion splicing, splice protection, fiber arrangement, and closure sealing.
- Gained exposure to main and protection fiber routes and telecommunications power systems, including ATS, gensets, rectifiers, DCDB/DCPDB, and batteries.
- Learned basic power-status monitoring through an internal Telegram-based monitoring workflow.

Deployment RT/RW Net
Project-Based Mini ISP— Politeknik IDN | Januari 2026 - February 2026

- Designed and deployed a small-scale RT/RW Net infrastructure using Fiber Optic as the backbone connection from the ISP to the local distribution network, serving 5 users with 5+ connected devices.
- Configured MikroTik RouterOS, including DHCP Server, NAT, firewall rules, and bandwidth management.
- Implemented network segmentation to improve network organization and security.
- Performed network monitoring and troubleshooting using Netwatch/The Dude to monitor connectivity and maintain network availability.
- Developed a landing page for network services and voucher sales.

Cisco & MikroTik Network Infrastructure

Project-Based Hands-on Lab mini Server — Politeknik IDN | November 2025

- Configured physical Cisco routers and switches to establish network connectivity between devices.
- Implemented OSPF routing to enable communication between interconnected network segments.
- Integrated MikroTik RouterOS as the internet gateway to provide internet connectivity to the network infrastructure.
- Configured, saved, and verified device configurations, including startup configurations, to ensure persistence after reboot.
- Performed connectivity testing and network troubleshooting to verify routing and infrastructure functionality.

Fortinet Firewall & SD-WAN Configuration

Project-Based Hands-on Lab — Politeknik IDN | Maret 2026

- Performed basic FortiGate configuration, including interface IP addressing and network connectivity.
- Configured firewall policies to control and manage network traffic.
- Implemented basic SD-WAN configuration for internet connectivity and WAN management.
- Explored fundamental network security features and traffic management through the FortiGate firewall.

AI Agent & Messaging Automation

Project-Based Lab — Politeknik IDN | Maret 2026

- Developed a basic AI-powered messaging agent integrated with a messaging platform such as Telegram or WhatsApp.
- Implemented automated message responses using AI-based interaction.
- Explored the integration of AI agents with messaging platforms to support automated communication and interaction.
- Learned the fundamentals of AI agent workflows, messaging integrations, and automation concepts.

Network Bootcamp Instructor / Peer Trainer
Politeknik IDN | November 2025

- Assisted in delivering an intensive networking bootcamp for more than 20 students, covering MikroTik routing, switching, VLANs, OSPF, firewall fundamentals, and troubleshooting.
- Supported hands-on troubleshooting exercises involving TCP/IP, VLANs, OSPF, tunneling, wireless networking, hotspot services, and firewall configurations.

Junior Computer Operator Intern
BPSDMP Kominfo Surabaya | August 2024

- Performed data entry and basic database tasks to support daily operations.
- Prepared reports and presentations using Microsoft Word, Excel, and PowerPoint.
- Assisted in maintaining user-data privacy during routine digital operations.

EDUCATION

Politeknik IDN
Computer and Network Engineering
July 2025 – Present | GPA: 3.56
Relevant Coursework: Enterprise Networking, Routing and Switching, Network Security, TCP/IP, Wireless Networking, and MikroTik/Cisco networking.

SMK PGRI 1 Sidoarjo
Electrical Power Installation Engineering
Studied electrical panels, residential, hotel, and industrial power installations, programmable logic controllers (PLCs), electrical motors, and electrical data analysis.

CERTIFICATIONS & TRAINING

- MikroTik Certified Network Associate (MTCNA) — October 2025 **ID 2510NA7918**
- MikroTik Certified Routing Engineer (MTCRE) — November 2025 **ID 2511RE7510**
- Fortinet Certified Network Security Support Engineer — May 2026
- Fortinet Certified FortiGate Administrator — May 2026
- CCNA: Getting Started with Cisco Packet Tracer — December 2025
- CCNA: Introduction to Networks — December 2025
- CCNA Netacad Academy: ITN, SRWE, ENSA — Oktober 2025 – Maret 2026
- Network Security — September 2025 Cisco (Coursera)
- Introduction to AI — May 2026 Google (Coursera) Webinar IT Ruijie Networking
- IT Network — Oktober 2026 Award Certificate

LANGUAGES

- Indonesian — Native
- English — Basic (Elementary)