

# ALFIANTO TEOFILUS BARA

+6281523753379 | [alfiantoteofilusbara@gmail.com](mailto:alfiantoteofilusbara@gmail.com) | [Linkedin](#) | [Portfolio](#)

## Summary

---

Telecommunications Engineering graduate with hands-on experience in network infrastructure, cybersecurity, and telecommunications operations. Proven track record supporting 480+ students as Technical Lab Assistant, teaching cybersecurity fundamentals (cryptography, wireless security, web security) while managing network security systems and reducing setup time by 30%. Experienced in 4G LTE drive testing, 5G network planning (Atoll), and telecommunications power systems through dual internships at PT Telkom Indonesia. CCNA-trained with Linux administration expertise (Red Hat certified) and practical skills in cloud deployment (AWS), containerization (Docker), and infrastructure monitoring. Seeking roles in cybersecurity, network operations, telecommunications infrastructure, or cloud engineering.

## Work Experiences

---

**Multimedia, Big Data, and Cybersecurity Laboratory (MBC Lab), Telkom University - Bandung, Indonesia** Jun 2024 - Jun 2025

*Technical Lab Assistant & Practicum Treasurer*

Research and practicum laboratory focused on multimedia applications, big data analytics, and cybersecurity education within Telkom University.

- Maintained and optimized 10 computer systems, ensuring optimal performance for 480+ students across scheduled practicum sessions
- Developed comprehensive technical documentation for laboratory procedures, reducing setup time by 30%
- Managed laboratory budget and procurement processes as Practicum Treasurer, overseeing equipment acquisition and financial planning
- Collaborated with faculty members to develop and enhance cybersecurity curriculum materials for large-scale student instruction
- Supervised daily laboratory operations and provided technical support to students and instructors

**Telkom Test House - PT Telkom Indonesia - Bandung, Indonesia** Jul 2024 - Aug 2024

*UREL Intern*

Testing facility under PT Telkom Indonesia providing various testing services for telecommunication devices and network infrastructures.

- Created internal technical documentation for lab equipment and testing procedures related to network infrastructure.
- Supported equipment inventory management, ensuring all devices were properly recorded.
- Assisted in organizing technical information to improve clarity and accessibility for internal teams.

**Witel Makassar - PT Telkom Indonesia - Makassar, Indonesia** Jan 2020 - Mar 2020

*Power Supply Technician Intern*

Regional division of Telkom Indonesia responsible for telecommunication infrastructure and service operations across Makassar and surrounding areas.

- Performed daily maintenance on UPS systems, rectifiers, and backup battery systems supporting critical telecommunications network infrastructure
- Monitored and recorded operational metrics including voltage levels, temperature readings, and battery health status
- Supported emergency power operations including generator startup and mobile generator deployment during network outages
- Implemented standard safety protocols and operational procedures for telecommunications facilities
- Gained hands-on experience with power distribution systems and backup power solutions

## Education Level

---

**Universitas Telkom - Bandung, Indonesia** Aug 2021-Aug 2025

*Bachelor of Telecommunication Engineering, 3.22/4.00*

- Practicum Assistant at MBC (Multimedia, Big Data & Cybersecurity) Laboratory for 1+ years
- Final Project: EEG Signal Stimulation and Analysis System in Video-Based Neuropsychology

**SMK Telkom Makassar - Makassar, Indonesia** Jul 2018 - Jun 2021

*High School Diploma in Telecommunication Transmission Engineering, 95.12/100.00*

- Specialized in fiber optics, microwave transmission, and basic networking systems
- Completed industrial internship at PT Telkom Indonesia's Power Supply Division
- Active member of Badminton Club

## Organisational Experience

---

**Asterisk – Telecommunication Engineering Student Association - Bandung, Indonesia** Sep 2023 - Feb 2024

*Logistics Division Staff*

Student organization at Telkom University supporting students aspirations, creativity, and academic development in telecommunications engineering.

- Coordinated procurement and distribution of event materials for 300+ participants
- Worked with multiple divisions to ensure timely delivery of logistics requirements
- Maintained documentation of all incoming and outgoing logistics activities
- Streamlined logistics workflows, reducing event preparation time by 20%

## Certifications

---

- **Python Programming** (2023): Completed comprehensive Python programming course via Skilvul, covering data types, loops, conditionals, and basic functions with hands-on projects. [View Certificate](#)
- **Telkom CyberFest** (2024): Participated in a 4-day intensive cybersecurity bootcamp hosted by Telkom Indonesia and MBC Lab, focusing on security awareness, technical training, and industry readiness. [View Certificate](#)
- **Docker & Containerization** (2025): Completed specialized training on Docker, and containerization technologies conducted by Adaptive Network Laboratory. [View Certificate](#)
- **CCNA Training** (2025): Cisco Certified Network Associate (CCNA) Training covering routing, switching, and network fundamentals, IDN Training Center, 2025. [View Certificate](#)
- **Linux System Administrator Training** (2025): Intensive Linux System Administrator (LSA) Training focused on server management and administration, IDN Training Center. [View Certificate](#)
- **Red Hat System Administration I** (2024): Completed a foundational Linux administration course with a focus on Red Hat systems. [View Certificate](#)
- **Introduction to Cybersecurity** (2025): Learned cybersecurity fundamentals, global threat awareness, and best practices for network defense. [View Certificate](#)
- **Networking Essentials** (2020): Studied network communication concepts, LAN setup, DHCP, IPv4/IPv6 addressing, and basic network security. [View Certificate](#)

## Projects & Course

---

- **Personal Project** (2025): Deployed static portfolio website on AWS EC2 using Apache on Linux, configured DuckDNS, SSH, and integrated Grafana, Prometheus, Promtail for monitoring. [View](#)
- **Final Project** (2025): At the Capstone Design Final Project Exhibition, Faculty of Electrical Engineering, Telkom University (June 3–4, 2025), I showcased my final project entitled “Video-Based EEG Signal Stimulation and Analysis System in Neuropsychological Experiments.” [View](#)
- **Course Assignment** (2025) : Conducted 4G LTE drive test analyzing RSRP, RSRQ, SINR, and Throughput, and designed 5G network planning for Banjarmasin (35–50 km<sup>2</sup>) using Atoll [View](#)

## Technical Skills

---

### Networking & Telecommunications

- **Network Fundamentals** : CCNA (Routing & Switching), TCP/IP, VLAN, OSI Layer Model.
- **RF Wireless** : 4G LTE Testing (RSRP, RSRQ, SINR Analysis), 5G Network Planning (Atoll).
- **Telecommunications Infrastructure** : Fiber Optics, Transmission System, Power Supply Systems.

### Cyber Security

- **Cryptography** : Symmetric & Asymmetric Encryption, Hash Functions.
- **Wireless Security** : WEP/WPA2/WPA2-Personal/ Enterprise, Server Radius.
- **Web Security** : HTTP/HTTPS Protocols, SSL/TLS Implementation, Wireshark Packet Analysis

### Cloud & Infrastructure

- **Cloud Platforms** : AWS (EC2, Configuration, Security Group), GCP (VM Instances, Server Harding, Firewall , GCS, Alerting, )
- **Containerization** : Docker, Container, Kubernetes.
- **Monitoring & Logging** : Grafana, Prometheus, Promtail, Loki.
- **Linux Administrations** : Red Hat Enterprise Linux (RHEL), System Configuration, SSH , Fail2ban

### Programming & Tools

- **Languages** : Dart, Python (numPy, Scipy, Pandas, Seaborn, Flask, matplotlib)
- **Web Server** : Nginx, Apache Configuration and Deployment.