

ABDUL FATAH AMRULLOH

Telecommunications Engineering Student

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SUMMARY

A Telecommunications Engineering graduate from Telkom University with a strong interest in Internet of Things (IoT), Adaptive Networks, and intelligent network simulation. Experienced in VANET project development, various simulation platforms, and web development. Currently active as a Technical Support Broadcasting professional at Trans TV, responsible for broadcast operations, MCR system monitoring, broadcast troubleshooting, and developing web-based shift scheduling systems. Proficient in collaborative and solution-oriented work environments.

EXPERIENCE

Technical Operation Support

Televisi Transformasi Indonesia (TrasnTV)

2025 - Present Indonesia

Technical Operation Support

- Operated and monitored the Master Control Room (MCR) system to ensure broadcasts ran according to schedule.
- Troubleshooted broadcast disruptions including signal loss, audio desync, and server downtime.
- Managed network connectivity between MCR, studio, and editing rooms, and performed preventive maintenance.
- Developed a web-based crew shift scheduler with automatic Excel upload functionality for team coordination.

Intern

PT Sisterponik

10/2025 - Present Indonesia

A technology company focused on IoT applications

- Designed schematics and boards with Eagle and Fritzing software, and casing design with Tinkercad
- Operated and monitored broadcast equipment during live and recorded transmissions.
- Conducted on-air technical troubleshooting to ensure optimal transmission quality.
- Coordinated with production teams and master control for broadcast scheduling.
- Verified and prepared broadcast materials according to station technical standards.
- Maintained transmission system stability and reported technical incidents.
- Integrated hardware and software and conducted field testing for data validation
- Supported the manufacturing process and data collection experiments in agricultural soil

Teaching Assistant

Programming Laboratory and Network Security Laboratory

09/2023 - 02/2023 Telkom University

Educational laboratory focused on programming and network security

- Prepared materials before laboratory sessions
- Assisted students in simulating MATLAB
- Evaluated simulation results of students

STRENGTHS



Technical Skills

Solid background in computer networks and IoT development



Interpersonal Skills

Effective communication and team collaboration

KEY ACHIEVEMENTS



Smart Fish Farm Android Application

Developed a smart fish farm Android application which facilitates investment in fisheries

CERTIFICATIONS

CCNA v7: Introduction to Networks

Cisco Certified Network Associate (CCNA) v7: Introduction to Networks

CCNA v7: Switching, Routing, and Wireless Essentials

CCNAv7: Switching, Routing, and Wireless Essentials

Microsoft Excel Basic Training by Skill Academy

Understanding basic Excel formulas, Knowing Excel formulas, Creating and editing charts and diagrams.

Microsoft Azure AI Fundamentals

Introduction to AI, machine learning, anomaly detection, computer vision, natural language processing, knowledge mining, AI challenges and risks, responsible AI.

HCIA-AI V3.5 Course

Gained an understanding of artificial intelligence (AI) fundamentals and its real-world applications, Studied neural networks, machine learning models, and AI system architectures.

Scaling AI in Your Organization

Explored strategies for responsibly scaling AI adoption in organizational environments, Understood the impact of AI on productivity, decision-making, and efficiency.

Prompt Engineering with Azure OpenAI Service

Learned the basics of prompt engineering for large language models (LLMs), Applied prompt engineering in practical scenarios using Azure OpenAI Service.

EXPERIENCE

Teaching Assistant

Programming Laboratory and Network Security Laboratory

09/2023 - 02/2023 Telkom University

Educational laboratory focused on programming and network security

- Prepared materials before laboratory sessions
- Assisted students in simulating Cadsoft Eagle Design PCB, Autodesk Viewer, AutoCAD, and SolidWorks
- Evaluated simulation results of students

Teaching Assistant

Programming Laboratory and Network Security Laboratory

09/2023 - 02/2023 Telkom University

Educational laboratory focused on programming and network security

- Prepared materials before laboratory sessions
- Assisted students in simulating Python using Visual Studio Code and Google Colab
- Evaluated simulation results of students

EDUCATION

Bachelor's Degree in Telecommunication Engineering

Telkom University

08/2021 - 06/2025 Indonesia

LANGUAGES

Indonesian
Native



English
Proficient



PROJECTS

Smart Fish Farm Android Application

2021 Telkom University

Developed an Android application to support fish farming investments

- Created a user interface for the SMAFI application
- Focused on investment opportunities in fisheries
- Managed the application using Android Studio and Flutter with Dart programming

IoT-Based Soil NPK Monitoring System

02/2024 - 06/2024 Indonesia

Designed and implemented an IoT-based system to measure soil nutrients (Nitrogen, Phosphorus, Potassium) using Arduino, Modbus, SIM800L, and Blynk platform.

- Developed hardware and firmware to collect and transmit real-time NPK data from the field
- Designed schematic and PCB for sensor integration, including 3D casing prototyping using Tinkercad
- Enabled mobile-based monitoring and data visualization through Blynk app for farmers
- Conducted real-environment testing on paddy and papaya soil samples, comparing fertilizer effects on NPK values
- Provided actionable insights for precision agriculture and sustainable farming practices

ADDITIONAL SKILLS

Python C++ HTML CSS

JavaScript Node.js IoT VANET

OMNeT++ NS3 PCB design

PROJECTS

Website Vanets

⌚ 02/2025 - 06/2025 🌍 Indonesia

Developed a web-based dashboard to monitor VANET routing performance using real-time metrics.

- Simulated VANET (Vehicular Ad-hoc Network) routing on Jl. Jenderal Sudirman, Purwokerto using AODV protocol
- Collected and visualized metrics such as Throughput, End-to-End Delay (EED), and Packet Delivery Ratio (PDR)
- Integrated historical comparison features for data analysis and network performance evaluation
- Built using modern web technologies (e.g., Node.js, Chart.js) to deliver an interactive and responsive UI for network analysis

Ad-Hoc On Demand Distance Vector Simulation

⌚ 02/2025 - 06/2025 🌍 Indonesia

Simulated a network using AODV protocol for vehicle communication

- Developed a simulation system for ad-hoc vehicle networks using the AODV protocol
- Used SUMO and OMNeT++ applications for vehicle mobility simulation and communication scenarios
- Analyzed parameters such as end-to-end delay, throughput, and packet delivery ratio
- Created a website to display simulation results and visualize parameters interactively and in real-time

Website Jadwal Shift Technical Operation Support

⌚ 2025 🌍 Indonesia

Developed an internal website to display crew shift schedules in real-time.

- Implemented Excel file upload functionality for automatic schedule and contact updates.
- Displayed crew information including contact numbers based on active shifts.
- Ensured seamless data integration between production, COGF, and technical support teams.