

ABDUL FATAH AMRULLOH

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PROFILE

Graduate of Bachelor's Degree in Telecommunication Engineering from Telkom University with a strong interest in Internet of Things (IoT), Adaptive Networks, and smart network simulation. Experienced in developing projects based on ad-hoc vehicle networks (VANET) and utilizing various simulation platforms and web development. Capable of working collaboratively, communicatively, and creatively to solve technical challenges.

EDUCATION

TELKOM UNIVERSITY

2021 - 2025

- **IPK:** 3,45 / 4,00
- Relevant Courses: Outstanding Courses: Algorithms & Programming, Microcontrollers, Computer Networks, Adaptive Network, Internetworking, Optical Communication Systems, Telematics Project Management, RF Electronics.

WORK EXPERIENCE

Assistant in Programming Laboratory And Network Security Laboratory

Assistant for PSWD (Discrete Signal Processing)

Sept 2023 – Feb 2023

- Preparing materials before the lab session.
- Assisting students in simulating MATLAB.
- Assisting students in simulating MATLAB.

Assistant in Programming Laboratory And Network Security Laboratory

Assistant for Technical Drawing Lab

Sept 2023 – Feb 2023

- Preparing materials before the lab session.
- Assisting students in simulating Cadsoft Eagle Design PCB, Autodesk Viewer, AutoCAD, SolidWorks software.
- Testing and evaluating the simulation results of students.

Assistant in Programming Laboratory And Network Security Laboratory

Assistant for Programming Workshop

Sept 2023 – Feb 2023

- Preparing materials before the lab session.
- Assisting students in simulating Python using Visual Studio Code and Google Colab.
- Testing and evaluating the simulation results of students.

ORGANIZATIONAL EXPERIENCES

SMART FISH FARM ANDROID (SMAFI)

2021

- Developing the user interface for SMAFI, a smart fish farm Android application.
- An Android application focused on fish farming investment.
- Managing the program using Android Studio, using Flutter with Dart programming language.

Simulation of Ad-Hoc On Demand Distance Vector (AODV) Routing Protocol on VANETs

- Developing a simulation system for ad-hoc vehicle networks (VANET) with AODV protocol.

- Using SUMO and OMNeT++ applications to simulate vehicle mobility and communication scenarios.
- Analyzing parameters such as end-to-end delay, throughput, and packet delivery ratio.
- Creating a website to display simulation results and visualize parameters interactively and in real-time.

TRAINING

CCNAv7: Introduction to Networks 2023

Cisco Networking Academy | Juni 2023

- Mastering switch, router, and network device configurations.
- Designing IPv4 and IPv6 addressing schemes.
- Implementing network security practices and ensuring optimal connectivity.

CCNAv7: Switching, Routing, and Wireless Essentials 2023

Cisco Networking Academy | Desember 2023

- VLAN & Inter-VLAN Routing: Configuring VLANs and inter-VLAN routing with best security practices.
- Network Redundancy: Implementing STP and EtherChannel to enhance network availability.
- Static Routing: Configuring static IPv4 and IPv6 routing on routers.
- Network Security: Implementing switch and wireless network security to reduce LAN attacks.
- Dynamic Networking: Configuring dynamic IPv6 address allocation and supporting robust networks.

Microsoft Excel Basic Training by Skill Academy 2023

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

Microsoft Azure AI Fundamentals 2024

- Basic concepts related to Azure AI.
- Introduction to AI, machine learning, anomaly detection, computer vision, natural language processing, knowledge mining, AI challenges and risks, responsible AI.
- Microsoft Azure AI Fundamentals validates basic knowledge of machine learning.

SKILLS

- **Hard Skills:** Visual Studio code, python, Matlab, Cadsoft Eagle Design PCB, Autodesk Viewer, AutoCAD, software SolidWorks, OMNeT++, SUMO, Microsoft Word, Microsoft Excel (vlookup & lookup), Microsoft Power Point.
- **Soft Skills:** Leadership, Time Work, Problem Solving, Communication, Time Management, and Creativity.
- **Programming language:** C++, C, Python, html, css, java.
- **Sertifikasi :** Cisco Certified Network Associate (CCNA) v7 : Introduction to Networks, Cisco Networking Academy Program, juni 2023, CCNAv7: Switching, Routing, and Wireless Essentials Cisco Networking Academy Desember 2023.

PORTOFOLIO

<https://github.com/AbdulFatahAmrulloh?tab=repositories>