FADILA INSANI

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I am final year of telecommunication engineering study program at Politeknik Negeri Jakarta. I have interest in communication technology, optical fiber, cellular network planning, and IoT. I have a basic understanding of link budget calculation, FTTH design, fiber optic installation, responsive web design firebase realtime database, vanilla java script (ES6+), and android app mobile. I am looking for an opportunity to be able to contribute further in the field of Telecommunication Industry to be able to apply the knowledge and interests that I have.

# EDUCATION

**SMAN 8 Kota Depok – Depok, Indonesia** 2019 – 2022

*Natural Sciences*

**POLITEKNIK NEGERI JAKARTA – Depok, Indonesia** 2022 – 2025

*D3 Telecommunication – IPK 3.52/ 4.00*

* Planning and installing Fiber Optic network using OTDR
* Apply techniques regarding the development of Interface Microcontroller Systems
* Applying techniques regarding Walktest using GNET TRACK
* Applying techniques regarding Switching Techniques and link budget calculations
* Perform cellular network planning using Atoll software
* Apply techniques regarding radio and satellite communications

# ORGANIZATION

**TELEXTION (Telecommunication Exploration)** Desember 2022 – Sekarang

*Secretary*

* Apply techniques about Networking using Cisco Packet Tracer software
* Applying techniques about the Internet of Things (IoT)
* Make a license letter for telextion activities

**ELECTRO ACTIVITES PROGRAMME (E-TIME)** Maret 2023 – Juli 2023

*Staff Publikasi dan Dokumentasi*

* Document photos and videos during the event
* Learn to use Zoom and Google Meet

# WORK EXPERIENCE

**JUNIOR FACILITY MAINTENANCE** Agustus 2024 – Sekarang

*PT. Angkasa Pura Indonesia*

* Planning CCTV network topology for Halim Perdanakusuma airport
* Perform network deployment through Access Point and ONT
* Installing and repairing door access control
* Checking electronic equipment at the airport
* Installing OS on mini PC using Ubuntu
* Performing Point to Point antenna installation
* Perform CCTV installation and repair
* Perform Point to Point antenna setup
* Perform Mikrotik configuration
* Perform CCTV setup

# CERTIFICATION

* Seminar Komunikasi Satelit PSN | 2023 | Telekomunikasi PNJ
* Unsupervised Machine Learning | Juli 2023 | MyDigiLearn
* Python Dasar (Gold) | March 2024 | Skilvul
* Internet of Things Fundamental | April 2024 | MyDigiLearn
* Internet Protocol (IP) Transit | April 2024 | MyDigiLearn
* Web Developer Series 11.0 Frontend | March 2025 | dibimbing.id
* CSS (Basic) | March 2025 | Hacker Rank
* Software Engineering | March 2025 | RevoU

# SKILL & TOOLS

## Teknis

* Microcontroller project development
* Telecommunication network analysis
* Splicing on fiber optic cable
* Responsive web design
* Firebase realtime database
* Vanilla java script (ES6+)
* Data collection and analysis
* Circuit design

## Non - Teknis

* Time management
* Problem solving
* Collaborative

## Language

* English (Basic)
* Indonesia (Native)

## Tools & Programming Language

* Network planning : Cisco Packet Tracer, Axence NetTools, Wireshark, Atoll, G- NetTrack
* Designing : NI Multisim, CST Microwave Studio, Protel99
* Mikrokontroler : Arduino IDE
* Programming Tools : VSCode, Android Studio, GIT/Github, Firebase
* Programming Language : HTML, Python, C++, CSS, Kotlin, Java Script

# PROJECT EXPERIENCE

**Design of 593 MHz Yagi Antenna as GSM Amplifier** Agustus 2023 – Januari 2024

*Telecommunication Engineering Project*

* Design calculations and design using CST Microwave software
* Perform measurements using Vector Network Analyzers and Function Generators
* Perform wave monitoring using Spectrum Analyzer

**Mini Sistem Radar Ultrasonik** Juni 2024

*KSM Telextion Project*

* Assembling microcontroller for ultrasonic radar system
* Learning Processing 4.3 software
* Learning Processing 4.3 programming

## Aerial Fiber Optic Cable Installation Juni 2024

*Telecommunication Engineering Project*

* Performing splicing on fiber optic cable
* Measuring attenuation with OPM
* Fiber optic cable installation on the pole

**Capybara Kyechain Ecommerce Web Project** Feb 2024 – March 2024

*Personal Project*

* Learning about responsive web design
* Build a simple e-commerce project with a solid foundation using java script

**Kalkulator Matematik (KATIK)** March 2024

*RevoU Project*

* Learning about responsive web design
* Create a minimalist, easy-to-use interface
* Build a simple calculator project with a solid foundation using java script