

# 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

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**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

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**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

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**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

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- 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

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### 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

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### *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

