Muhammad Rafli

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SUMMARY

FTTH Network Design Drafter with 9 months of experience producing HLD, LLD, As-Planned Design (APD) and As-Built Design (ABD) drawings for residential fiber projects in Lippo Cikarang and Kupang. Skilled in AutoCAD, QGIS and Google Earth Pro, with a networking foundation in MikroTik and Cisco Packet Tracer from Computer and Network Engineering training. Currently studying Computer Science at Bina Nusantara University and seeking an FTTH design or network engineering role.

PROFESSIONAL EXPERIENCES

PT Pitjarus Teknologi **March 2024 – June 2024**
AI Data Intern

- Contributed to AI model development by identifying and inputting product data for computer vision and classification purposes
- Conducted detailed product identification to ensure high accuracy and data quality for AI training datasets
- Collaborated with the AI team to support data preparation processes for supply monitoring and product recognition projects
- Gained exposure to AI applications in retail supply chain monitoring and product management

PT Transdata Satkomindo **August 2025 – April 2026**
Drafter

- Created and developed FTTH (Fiber To The Home) network designs using AutoCAD, Google Earth Pro, and QGIS
- Produced both As-Planned Design (APD) and As-Built Design (ABD) drawings to ensure accurate network implementation and documentation
- Analyzed geographic and infrastructure data to optimize fiber optic routing and network efficiency
- Collaborated with field engineers and project teams to align design plans with on-site conditions
- Ensured design accuracy and compliance with project standards and telecommunications requirements
- Updated and revised technical drawings based on field survey results and project changes

PROJECT EXPERIENCES

LAN Network Installation and Computer Lab Reorganization Project **August 2023 – December 2023**

- Installed and configured a Local Area Network (LAN) to connect multiple devices for seamless file sharing and internet access
- Set up hotspot networks using MikroTik RouterOS (Winbox) and Mikhmon for user management and authentication
- Reorganized and optimized the school's computer lab layout, improving cable management, network efficiency, and accessibility
- Configured MikroTik routers for bandwidth management and user access control to ensure stable and secure connections
- Utilized Cisco Packet Tracer to design, simulate, and troubleshoot network configurations before physical implementation
- Developed a customized web login hotspot page for the school using HTML to enhance user experience and branding

FTTH Network Design Project – FiberStar (Lippo Cikarang) **August 2025 – April 2026**

- Developed High-Level Design (HLD) and Low-Level Design (LLD) for FTTH deployment in residential cluster areas
- Designed and documented core connection cable routing, including network distribution planning and topology structure
- Created detailed crossing designs to ensure safe and efficient cable installation across roads and infrastructure
- Produced network schematics diagrams to illustrate fiber connectivity and system architecture
- Generated precise drawing maps using geospatial and CAD tools to support planning and implementation
- Ensured all designs aligned with project requirements and field feasibility standards

FTTH Network Implementation Project – MyRepublic (Kupang) **August 2025 – April 2026**

- Designed and executed FTTH network planning for dense residential (RW) areas with complex road layouts
- Performed redline revisions based on field survey data to ensure design accuracy and real-world alignment
- Produced As-Planned Design (APD) and As-Built Design (ABD) documentation for project validation and reporting
- Planned and optimized pole placement for effective network coverage and structural feasibility
- Configured fiber optic cable routing to ensure efficient distribution and minimal signal loss
- Designed and documented Joint Closure Box configurations for proper fiber splicing and protection
- Configured and mapped Fiber Distribution Terminal (FDT) placements and connections
- Created detailed FDT tray slot drawings to ensure organized fiber management and maintenance efficiency

EDUCATION

SMK Dharma Paramitha - Computer and Network Engineering **July 2022 – May 2025**
Bina Nusantara University – Computer Science **August 2025 – Present**

SKILLS

- **Design & GIS:** AutoCAD, QGIS, Google Earth Pro
- **FTTH Design:** HLD/LLD, APD/ABD, redline revision, cable routing, pole placement, FDT and Joint Closure Box design
- **Networking:** MikroTik RouterOS (Winbox), Mikhmon, Cisco Packet Tracer, LAN setup, network troubleshooting, topology design
- **Data & Others:** AI data annotation, Python, Microsoft Excel, PowerPoint, Word, Adobe Photoshop, After Effects, Premiere Pro