Maulana Muhammad Aziz

Bachelor of Telecommunication Engineering (S1)

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BRIEF SUMMARY

I am a graduate from Telkom University Bandung majoring at Telecommunication Engineering in 2021 with GPA (IPK) of 3,51 (Cum Laude). focused on studying network access communication and radio engineering courses, which focused on cellular communications, satellite communication, and fiber optic communications with experience on nano-satellite research laboratory in the Communications division or commonly called RF, with special research on the satellite communication side using LoRa modules and satellite payloads in the form of a camera.

INTERNSHIP

PT Telkomsat as Intern Researcher (June 2020 – July 2020)

PT. Telkomsat is a satellite service provider that is expert in providing high-quality and international standard upstream to downstream services. PT Telkomsat itself is a subsidiary of PT Telkom Indonesia.

As an **Intern Researcher**:

- Conducted a research based on one of the programs of PT. Telkomsat is the use of the LoRa communication system for low-orbit satellites.
- Become a seminar committee and MC for national seminar events in collaboration with IEEE GRSS

PT Telkom Indonesia as Intern (June 2019 - July 2019)

PT Telkom Indonesia (Persero) Tbk (Telkom) is a state-owned information and communications technology enterprise and telecommunications network in Indonesia.

As an **Intern**:

- Organize a "chill at wico" event which is an event to promote Telkom's wifi corner products.
- Learn how Central Telephone Otomat works as a Routing and Multiplexing center for fiber optic.
- Learn splicing techniques (connect fiber optic cables).
- Sell Indihome products door 2 door in the Central Jakarta area.

ORGANIZATION EXPERIENCE

Nanosatellite Laboratory | Telkom University (March 2019 - May 2021)

Nano Satellite Laboratory is a organization that research on Nanosatellite Laboratory, which is a system on telecommunication that using a small satellite as a relay for transporting an information.

As a **Researcher member, Head of Internal:**

- Final Research Project title was **"LoRa Sensor Node for Direct to Satellite Communication for Space Based IoT"**.
- Research on payload nano satellites with missions for remote sensing using RGB cameras. This research is collaborative research with the IEEE GRSS organization and the UAE NSSTC.
- Publication of research journals on nano-satellite payload research at the International Seminar on Aerospace Science and Technology 2020 with the journal title: **Preliminary Design of Cubesat Payload for Clouds Coverage Detection using RGB Camera.**

Engineering Service Community | Telkom University (September 2020 - August 2021)

Engineering Service Community is an organization focused on community service by using science and engineering skill.

As a **Research member:**
- Research and community service using technology in Cipatujah, West Java (2020). By making an Electrical Windmill generator for electrical supply for shops around Cipatujah Beach to solve the economic problem in that area that was caused by the pandemic.

ACADEMIC ACHIEVEMENT

- Won 2nd student Grand Challenges Competition held by IEEE GRSS organization and the UAE NSSTC for making proposal and plan for Research on payload nanosatellites with missions for remote sensing using RGB camera. (October 2019).
- Won Research for Community Competition service using technology in Cipatujah, West Java (2020). By making an Electrical Windmill generator for electrical supply for shops around Cipatujah Beach.
- Finalist Gemastik Competition For Smart City Division (2020) By making Apps for crowds observer in public places during the Covid-19 pandemic time.

TRAINING and SKILLS

- **Telecommunication Engineering skill:**

  - Satellite communication systems
  - Basic Fiber Optic communications systems
  - Basic Cellular Communications
  - Planning and Design Cellular Communication mapping with Pathloss 5 software and Atool software
  - Design Antenna with CST software
  - splicing technic (connect fiber optic cables)
  - Design a nanosatellite Communication component.

- **Coding skills:**
  - C language
  - C++ language for Microcontroller Configuration.

- **Design UI for WEB and APK (smartphone, or tablet) using tools:**
  - Adobe XD
  - Figma

- **Management Skills:**
  - Organizational and planning skills
  - Simple Inventory Management
  - Team-work oriented
  - Planning and Forecast

- **Google Digital Entrepreneurship Public Class (2022):**
  - How to Expand your business marketing using Google Trends.
  - Using E-commerce experience to Expand your business market by making a dedicated website for your store or using an online marketplace and using Google Trends.

- **Microsoft Office (Word, Excel, Access, Power Point, Outlook)**

- **Fluent in English certified TOEFL Score from ETS with score 550**