



# JOSH DELON

082261022927 | [joshdelon990@gmail.com](mailto:joshdelon990@gmail.com) | [www.linkedin.com/in/josh-delon-55785727a](https://www.linkedin.com/in/josh-delon-55785727a) | <https://github.com/JoshDelon-Tambunan>

Lumban Bagasan, Laguboti, Toba, Sumatera Utara

An Electrical Engineering student passionate about Electrical Systems, Computer Networks, Cloud Computing, and IoT. Experienced in PCB design, system integration, and FPGA implementation. Proactive, innovative, and skilled in problem-solving, with a commitment to continuous learning and professional growth.

## Project Experiences

### Kominfo Toba - Kominfo-Balige, Indonesia

Jul 2021 - Oct 2021

#### Internship

During the internship program at the Toba Regency Communications and Informatics Office (Kominfo), I contributed to various activities supporting operations and public information management.

- Assisted in the management of documents and administration related to Kominfo's work programs.
- Participated in the maintenance of computer networks and hardware used by the office.
- Helped in the management of data and information in Kominfo's internal systems.
- Responsible for the repair and maintenance of videotron systems.

### Data Management and Summation System - Del Institute of Technology – Laguboti, Indonesia

Nov 2024 - Dec 2024

#### Student

- Designing a stable input data management system using a debouncer module on FPGA.
- Integrating computer system architecture concepts with hardware components such as the 7-segment display.
- Integrating and implementing the entire system on the FPGA device to display the summation results on the 7-segment display.

### Inovasi Sistem Monitoring Konsumsi Energi Listrik pada Gedung Berbasis Internet of Things - Del Institute of Technology – Laguboti, Indonesia

Nov 2024

#### Student

- Circuit Design: Connecting the SCT-013 current sensor and ZMPT101B voltage sensor to the ESP32 module for data collection.
- Application Development: Creating a user interface in the Blynk application to visually display energy consumption data.
- System Integration: Integrating all hardware and software components to function as a unified system.

### Business Franchise Development Project - Del Institute of Technology – Laguboti, Indonesia

Oct 2024 - Dec 2024

#### Student

## Education

### SMK Swasta YAPIM Balige - North Sumatera, Indonesia

Jun 2019 - Jun 2022

Student Computer and Network Engineering

### Institut Teknologi Del - North Sumatera, Indonesia

Jul 2022 - Jul 2026 (Expected)

Bachelor of Electrical Engineering

## Organizational Experience

### Himpunan Mahasiswa Elektro(HME) - IT Del-Laguboti, Indonesia

Nov 2022 - Present

#### Member

Developing and improving the quality of education within the program association

### Majelis Permusyawaratan Anggota HME - IT Del-Laguboti, Indonesia

Oct 2023 - Present

#### Leader

The Electro Student Association Assembly of Members (MPA-HME) is the highest body within the organizational structure of the Electro Student Association. MPA-HME serves as a forum for strategic decision-making, oversight, and evaluation of the organization's operations.

- Ensuring the continuity of the organization in accordance with the agreed vision and mission.
- Guaranteeing that the organization's operations comply with applicable regulations.
- Representing the voice of all members of the Electro Student Association in every strategic decision.

### Del Robotics Club - IT Del-Laguboti, Indonesia

Sep 2023 - Present

### *Member*

Del Robotic Club was established in 2009. The background of its establishment was the final project of the 2009 batch of students from Politeknik Informatika Del. To further develop the final project, Del Robotic Club was formed in 2009 and has continued to exist to this day.

- Participating in national or international robotics competitions to test the capabilities of the designed robots.
- Designing and developing various types of robots, such as line follower robots, fire-fighting robots, or IoT-based robots.
- Attending training sessions to improve programming skills, mechanical design, and hardware-software integration.

## **Skills and Other**

---

- **Technical Skills:** PCB Design (Autodesk Eagle, Proteus), FPGA Programming (Quartus Prime, VHDL), IoT Development (Arduino IDE, Python), Computer Networking (Cisco Packet Tracer, VirtualBox, Ubuntu, Kali Linux, Cloud Computing).
- **Soft Skills:** Team Collaboration, Leadership, Problem-Solving, Time Management
- **Programming Language:** C language, Python, SQL, VHDL.