



JOSH DELON

082261022927 | joshdelon990@gmail.com | www.linkedin.com/in/josh-delon-55785727a | https://github.com/JoshDelon-Tambunan

Lumban Bagasan, Laguboti, Toba, Sumatera Utara

I am an Electrical Engineering student who is passionate about learning 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.

Sistem Pengelolaan Data dan Penjumlahan dengan Tampilan 7-Segment Berbasis VHDL - 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.
- The IoT system successfully monitors energy consumption with 95% accuracy and provides real-time data through the Blynk application.
- Team Collaboration: Successfully led the team in completing an ESP32-based IoT project.

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

- Understanding the fundamentals of network protocols (TCP/IP, DNS, DHCP).
- Configuring routers and switches using Cisco Packet Tracer.
- Certified in Computer and Network Engineering (CNE Competency Certification).
- Participated in network installation at the company during an internship program.
- Provided technical support for the company's computer systems.

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

Wali Supervisor Program Cinta Almamater - IT Del-Laguboti, Indonesia

Aug 2023 -

Supervisor

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.

- Participate in national or international robotics competitions to test the capabilities of the designed robots.
- Design and develop various types of robots, such as line follower robots, firefighting robots, or IoT-based robots.
- Become a Mechanic in the field of Indonesian Wheeled Robot Contest (KRSBIB)

Member of the inaguration, Dies Natalis, and Graduation Committee 2023 - IT Del-Laguboti, Indonesia

Sep 2023 -

General Section

Majelis Permusyawaratan Anggota HME - IT Del-Laguboti, Indonesia

Oct 2023 - Oct 2024

Member

As a Member, I am involved in the supervision and evaluation of organizational activities to ensure operations are in accordance with the vision and mission.

Majelis Permusyawaratan Anggota HME - IT Del-Laguboti, Indonesia

Oct 2024 - 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.

- As a Leader, I lead strategic decision-making and represent members' voices in plenary meetings for organizational sustainability.

HME Cadre Regeneration Committee - IT Del-Laguboti, Indonesia

Oct 2024 - Nov 2024

PIC

Forming and shaping the character of prospective members of the Electrical Student Association

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).
- **Programming Language:** C, Python, SQL, VHDL.
- **Soft Skills:** Team Collaboration, Leadership, Problem-Solving, Time Management