

MAGDALENA NOÉ

ELECTRONIC ENGINEERING STUDENT & FULL-STACK DEVELOPER

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EDUCATION

National Technological University (UTN)

GPA 8.67/10 ($\approx 3.5/4.0$ equivalent)

Electronic Engineering • 2021 - Present

WORK EXPERIENCE

EE department at UTN • Web developer and inventory manager

Sept. 2022 - Sept. 2023

- Modernized the lab and classroom reservation system, making the process more intuitive and increasing its usage among students.
- Improved the equipment search tool, speeding up the lending process.
- Managed inventory and electronic equipment, as well as preparing reports for academic authorities.

PROJECTS

Smart incubator

Aug. 2025 - Dec. 2025

- Designed and implemented embedded software in **C** on an **STM32** using **FreeRTOS**, implementing automatic temperature and humidity control.
- Designed the interconnection and power supply **PCB**.

Cell fuse design for battery pack

Jul. 2026 - Aug. 2026

- Designed a 45 A fuse in **Onshape** and simulated it using thermal-electric analysis in **ANSYS**.
- Developed **Python** scripts to streamline simulation and analysis.
- Validated the design using a real-world test bench.

Special Cases Enrollment System

Sept. 2022 - Mar. 2023

- Designed the user interface for students and university authorities using **JavaScript** and **CSS**.
- Added the required information editing the **MariaDB** database.
- Automated enrollment rejections, validation, document generation, and email notifications, reducing response time from 2-3 months to a few weeks.

SKILLS

Programming languages: C, C++, PHP, Python, Javascript, SQL, VHDL, HTML, CSS.

Microcontrolador platforms: ESP8266, Bluepill STM32, LPC845, Arduino.

FSAE development group

Team member of [UTN BA MOTORSPORT](#), responsible for battery pack development for an electric formula race car.

Research scholarship

Participant in the research project "Sensors and Intelligent Data Processing for Environmental Management of a Nuclear Industrial Plant", led by [Juan Vorobioff](#).

English (C1, Advanced)

Cambridge Advanced (CAE), C1 level (Overall Score: 195). Practical experience gained through a Work & Travel program in Colorado, USA (2025-2026 winter season), working in an English-speaking environment and collaborating in multicultural teams.