

Alejandro Federico Cafaro

ELECTRONIC ENGINEERING STUDENT | SOFTWARE AND EMBEDDED SYSTEMS

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Profile

Electronic Engineering student at UTN Paraná focused on software, embedded systems and data processing. Built team and academic projects using C/C++, Python, TypeScript, STM32 and sensor interfaces. Seeking software development or embedded software opportunities.

Technical skills

Languages: C, C++, Python, TypeScript, JavaScript, Assembly

Frameworks and data: Next.js, Express, Supabase, Pandas, NumPy, SciPy, Matplotlib, FastF1

Embedded and tools: STM32, ESP32, FreeRTOS, UART, I2C, SPI, Git, MATLAB, Simulink

Selected projects

knowAhuman | Platanus Hack 2026 | Team 24 · Next.js, TypeScript, Express, Supabase, Vercel

Contributed to a team built platform matching developers with startup founders by technical and cultural fit during a 36 hour hackathon. Code: github.com/platanus-hack/platanus-hack-26-ar-team-24

Environmental monitoring and alert system | UTN team project · STM32F103, ESP8266, I2C

Built an embedded IoT prototype integrating temperature, humidity, gas and smoke sensors with Wi-Fi telemetry, local display and audiovisual alerts.

Digital filter design with AI assistance | UTN team project · DSP, FIR, IIR, PPG/ECG

Designed and analyzed FIR and IIR filters for biomedical signals and incorporated an AI agent for coefficient calculations and stability checks.

Education

Electronic Engineering | Universidad Tecnológica Nacional, Facultad Regional Paraná

2022–present · Expected graduation July 2027

Mechanical Electrical Technician | Escuela Industrial Superior, Santa Fe · 2021

Experience

Kitchen Supervisor | Margaritaville Resort, South Lake Tahoe, USA · Dec 2024–Mar 2025

Coordinated daily team tasks and quality standards in a busy multicultural workplace; communicated in English.

Languages

Spanish: native | English: B2 | German: B1