



TOMÁS GAMBIRASSI

Electronic Engineering
Student

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[LinkedIn](#)

[Portfolio](#)

PROFESSIONAL SUMMARY

Maker and Electronic Engineering student (Universidad de Palermo, Buenos Aires) with hands-on experience across personal, academic, and professional projects in electronics, 3D printing, PCB design (KiCad, Altium, EasyEDA), and 3D modeling (Fusion 360, SolidWorks, Blender). I work with microcontrollers, embedded systems, mesh networks and LoRaWAN, IoT, Edge AI, Computer Vision, and basic programming (Python, HTML, CSS, JavaScript), plus the Office suite (Excel, Word, PowerPoint). Proactive, eager to learn, and a strong team player.

WORK EXPERIENCE

Apprentice - MexiPC, Querétaro, México. Jan 2025 - Mar 2026

- Developed a full production line monitoring system based on edge AI, computer vision and custom object detection.
- Deployed multiple cameras across the production line to automatically count units in real time.
- Built and labeled custom datasets and trained a custom YOLO model for the detection task.
- Integrated the devices with the factory's systems and built a connected dashboard and database backend for production tracking and reporting.
- Collaborated closely with production, IT and management teams to align the system with real factory workflows and requirements.
- Worked independently to research, prototype and deploy the solution end to end, adapting quickly to on-site constraints.

EDUCATION & PROJECTS

- **B.Eng in Electronic Engineering**, Universidad de Palermo, 2026 - 2030.
- **Cambridge CEFR C2 English Level**, Native/Bilingual Proficiency.

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- **MALLA**: Full development of a Plug and Play LoraWan industrial mesh sensor solution (ESP32, LoRa), 2026.
 - **Cenit Altimeter**: PCB and firmware design of a rocketry altimeter and igniter (PIC16F15223), 2026.
 - **MidiStyl**: PCB and firmware design of a stylus activated midi controller (RP2040), 2025.
 - **SensLog**: PCB and Firmware design for a plug and play sensor logger solution (ESP32), 2024.
 - **Kabel E-Leveler**: PCB design for a 3D Printer electronic leveler, 2023.

KEY SKILLS

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| • 3D Modelling Software (Fusion, Solidworks, Blender) | • PCB Design and Assembly |
| • EDA Software (KiCad, Altium, EasyEDA) | • Microcontrollers (ESP32, PIC, STM32, Arduino) |
| • 3D Printing | • Linux |
| • Rapid Prototyping | • Microsoft Office Suite |
| • Product Development | • Project and Resource Management Skills |
| • Python, HTML, CSS, JavaScript | • Leadership and Teamwork Skills |
| • Computer Vision (OpenCV) | • Communication Skills |