

Pablo Santiago Hernández Ramírez

Electronic Engineer

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Professional Profile

Electronic Engineer graduated in 2025, with hands-on experience in applied engineering projects and electronic systems in real operational environments. Experienced in the upgrade and improvement of technological systems, as well as in university-level technical support. Focused on practical solutions, system reliability, and technical problem-solving.

Professional Experience

Project Assistant – Electronic Systems — Parque del Café, Quindío, Colombia 09/2024 – 05/2025

- Participated in the upgrade of the *on-ride* photography system for the "Avix" and "Yippie" roller coasters, improving system reliability and performance.
- Supported system integration, camera programming, testing, and commissioning in a high-demand real operational environment.
- Collaborated with technical teams in fault identification and troubleshooting, contributing to service continuity.

Teaching Assistant – Electronic Engineering — Technological University of Pereira, Pereira, Colombia

- Certified teaching assistant with more than **300 hours** of experience, providing academic and technical support to Electronic Engineering students.
- Assisted in the development, review, and correction of electronic projects, supporting the proper use of tools, components, and engineering methodologies.
- Strengthened technical communication, problem-solving, and collaborative work skills in academic environments.

Technical and Educational Assistant — Pablo Sexto School, Pereira, Colombia 07/2025 – 11/2025

- Collaborated with engineer and professor Edison Orozco in the development of technological and educational projects.
- Provided technical support to students during the execution of electronic projects, promoting hands-on learning.
- Participated in the design and development of a large-format electronic sports scoreboard, including physical assembly and printed circuit board (PCB) construction.

Education

Electronic Engineer — Universidad tecnológica de Pereira, Pereira, Colombia 2025

Technical Skills

- **Electronics and hardware:** electronic system assembly and wiring, PCB construction, component integration, and technical support.

- **Programming and embedded systems:** Python, C, and C++, programming of microcontrollers, microcomputers, and PLCs, hardware–software integration.
- **Automation and control:** PLC programming using *Structured Text* (IEC 61131-3), development of control sequences using GRAFCET, and industrial control logic.
- **Instrumentation and testing:** functional verification, fault identification and troubleshooting, testing, and commissioning of systems.

Interpersonal Skills

- **Technical leadership:** coordination of activities and support in technical problem-solving.
- **Problem-solving:** analytical and practical approach to unexpected technical situations.
- **Technical communication:** clear interaction with technical and non-technical profiles in collaborative environments.

Languages

Spanish — Native

English — B2

Certifications

Control Systems Analysis: Modeling of Dynamic Systems — University of Colorado Boulder (Coursera), 2025

Cybersecurity Tools and Technologies — Microsoft (Coursera), 2025

Introduction to Robotics and Industry 4.0 — Anáhuac Universities (Coursera), 2025

Fundamentals of Python Programming using LEGO Mindstorms EV3 — Technological University of Pereira, 2024

Introductory RPA Course — PIX Robotics LATAM, 2024

Additional Information

Interest in remote work · Autonomy in task management and problem-solving · Continuous training in automation, embedded systems, and control