

# Steven Alpízar Gamboa

## Industrial Electronics Technician

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### Summary

Trained as an Industrial Electronics Technician with knowledge in industrial systems and automation, electrical schematic interpretation, microcontroller programming, and programmable logic controllers (PLC). Additionally, developed soft skills such as teamwork, leadership, assertive communication, problem-solving, results-oriented approach, and critical thinking.

### Key Achievements



#### Robotics Club - STEAM Program

February 2025 to Present

- Active participant in robotics projects focused on STEAM (Science, Technology, Engineering, Arts, and Mathematics).
- Competed in an Agricultural Robotics Competition, applying automation and programming skills to solve real-world challenges.
- Participation in the World Robot Olympiad (WRO), showcasing teamwork, problem-solving, and advanced robotics knowledge on a national stage.



#### LESCO Sign Recognition System

February 2023 to November 2024 (1 year, 9 months)

- System under development capable of recognizing LESCO gestures using machine learning in Python.
- Design and development of a glove capable of interpreting LESCO gestures through the use of accelerometers.

### Education History



#### High School Diploma, Associate's Degree in Industrial Electronics

Jan 2023 – Present

- CTP Don Bosco
- Currently Enrolled



#### Completion of General Basic Education Studies

Jan 2020 – Dec 2022

- CTP Don Bosco
- Completed

### Certifications & Courses

- **EBOX-I2 STEAM Program** (CTP Don Bosco & I2CA): Student Leadership Development through Innovation, Technology, Science, and Arts
- **AgriSTEAM Program** (IICA)
- **3D Printing Introduction Workshop** (Universidad LCI VERITAS)

### Skills

- **Technical:** Microcontroller programming, PLCs, automation systems, machine learning, sensor integration, robotics, Electrical diagrams and schematics.
- **Software:** LabVIEW, Multisim, CADE SIMU, AutoCAD, Fusion 360, Arduino IDE, PyCharm, VS Code, Excel.
- **Soft Skills:** Teamwork, leadership, problem-solving, critical thinking, assertive communication, results-oriented approach.

### Languages

#### Spanish

Native

#### English

Intermediate (TOEIC preparation in progress)

### References

#### Jeisson Córdoba Vargas

- Educational Innovation Manager
- CTP Don Bosco
- [jcordoba@cedesdonbosco.ed.cr](mailto:jcordoba@cedesdonbosco.ed.cr)

#### Ing. Fabián Garro Aragón

- Industrial Electronics Professor
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