Jhosue Herrera

Electronics and Automation Engineer

Quito, Ecuador (Available for remote work or relocation)

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PROFESSIONAL SUMMARY

Electronics and Automation Engineer with hands-on experience in industrial automation, IoT, and technical documentation. Skilled in AutoCAD, HMI/SCADA design, and integration of low-voltage systems using PLCs, industrial networks, and robotics.

I've worked on real-time control and monitoring projects involving schematics, panel layouts, and signal tracing. Completed certifications with Rockwell Automation and ABB, focused on electrical diagrams, switchgear, and panel systems.

Furthermore, I possess certifications to create KPI reports with tools like Ignition and Power BI. I use Python and SQL for data management, applying Lean Manufacturing and Six Sigma methodologies.

KEY TECHNICAL SKILLS

Automation and Control

- Siemens S7-1200, TIA Portal
- Allen-Bradley Studio 5000
- Schneider SoMachine
- Ladder & Structured Text

AutoCAD & Technical Drawing

- Electrical layouts & panel design
- Real-time signal diagrams

Data Analytics

- Advanced Power BI, Advanced Excel

HMI / SCADA / MES

- WinCC, FactoryTalk View
- AVEVA MES
- Sepasoft OEE & SPC

Low-Voltage Systems

- ABB devices & control panels
- Access control basics

Lean & Six Sigma Methods

- Lean Manufacturing, Kaizen, 5S
- OEE, SPC, TPM, VSM

- Python (automation, real-time data processing)
- SQL for data management

- White Belt Certified

Robotics & Embedded Systems

- KUKA KR3 R540, NAO
- IMU BNO085
- C++ for motion control & real-time data

Documentation & Communication

- Panel schematics & field-ready formats
- Version control & QA support
- Collaboration with engineers & field teams

RELEVANT EXPERIENCE

Network Administrator Oct 2024 – Jun 2025
CELEC EP

- Implemented and managed industrial LAN/WAN networks connecting PLC and IoT devices.
- Configured DHCP, DNS, Active Directory, and automated backup systems to enhance data reliability.
- Documented infrastructure and developed standardized procedures for digital security.
- Supported technical drawings for automation panels and equipment monitoring.

Robotic Monitoring and Control Systems Designer Feb 2024 – Jul 2025
ESPE

- Designed an IoT motion-capture system using IMU BNO085 sensors integrated with a KUKA KR3 R540 robot.
- Created schematics and panel layouts for robotic motion systems using AutoCAD.
- Built a real-time data pipeline (IMU → Python/C++ → Robot), reducing latency to < 80 ms and angular error to ±2.5°.
- Documented procedures following ISA-101 and prepared design concepts for implementation.

NAO Robot Programmer 2024
ESPE

- Developed interactive educational routines for the NAO robot using sensor data analysis and basic AI for motion recognition.
- Enhanced robot responsiveness and user interaction accuracy.
- Documented integration procedures with clear technical diagrams.

EDUCATION & CERTIFICATIONS

B.Sc. in Electronics and Automation Engineering

ESPE · 2019 – Aug 2025

- **Automation Introduction to FactoryTalk View SE** - (Oct 2025)
- **ABB Medium Voltage Switchgear and Low Voltage Devices** - (Oct 2025)
- **Six Sigma White Belt** - Six Sigma Online (Jun 2025)
- **MES Intro & Sepasoft OEE / SPC** - (May 2025)
- **Excel Advanced** - (120 hours) (Jul – Sep 2025)
- **Power BI Advanced** – (Oct 2025)
- **Python for Data Processing** – (Oct 2025)

LANGUAGES

- **Spanish:** Native
- **English:** Professional working proficiency (actively improving technical fluency)

CAREER OBJECTIVE

Seeking opportunities to leverage my expertise in electronics, low-voltage systems, and automation engineering to produce precise technical drawings for smart, safe, and efficient installations, particularly in access control, CCTV, and integrated security systems. I aim to combine technical skills with strong documentation and problem-solving abilities to ensure reliable field execution.

Additionally, I aspire to apply my knowledge of industrial automation, IoT, and data analytics to develop intelligent solutions that enhance operational efficiency, asset availability, and traceability. I am eager to contribute to innovative companies by integrating technologies like SCADA/MES, smart systems, and robotics, while advancing my professional growth and supporting digital transformation.