

# JAVIER BRAVO BERNAL

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## PROFESSIONAL SUMMARY

Mechatronics Engineer with 4+ years of experience in automation, control systems, and electromechanical troubleshooting, currently pursuing a Master's in Applied Artificial Intelligence. Strong background in PLC programming, system optimization, and data analysis. Experienced in cross-functional collaboration, project leadership, and implementing technical solutions that improve operational efficiency and reduce downtime. Interested in both engineering and data-driven roles.

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## TECHNICAL SKILLS

**Automation & Controls:** Rockwell (Allen Bradley) PLC, TIA Portal, SCADA/HMI, IEC 61131-3, Robotics, Sensor Integration

**Programming & Data:** Python, SQL, C, R, MATLAB, Tableau

**Design & Simulation:** SolidWorks, AutoCAD, LabVIEW

**Project Management:** SCRUM, Budgeting, Timeline Management, Cross-functional Leadership

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## PROFESSIONAL EXPERIENCE

### Service Engineer | Ecolab | New York, NY | 2024 – Present

- Designed a digital maintenance tracking system reducing downtime by 15%.
- Led troubleshooting and installation of complex electromechanical systems.
- Improved team productivity by 20% through mentoring and structured diagnostics.
- Collaborated with sales and operations to align technical solutions with client needs.

### Quality Control Engineer | Inglemed | Ecuador | 2022 – 2024

- Diagnosed electromechanical faults and implemented control improvements reducing error rates by 12%.
- Analyzed performance data to validate technical solutions.
- Updated technical documentation and system schematics.

### **Owner/Operator | Family Pharmacy | Ecuador | 2021 – 2022**

- Led digital and operational upgrades increasing profitability by 8%.
  - Used Python, SQL, and Tableau to analyze processes and support data-driven decisions.
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## **EDUCATION**

### **M.S. in Applied Artificial Intelligence (In Progress)**

Tecnológico de Monterrey | 2023 – 2025

### **B.S. in Mechatronics Engineering**

Tecnológico de Monterrey | 2017 – 2021

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## **PROJECT HIGHLIGHTS**

- PLC-based Elevator Control System (TIA Portal – Ladder Logic)
- Automated Sorting Robot (LabVIEW, MATLAB)
- Smart Irrigation System (Raspberry Pi, Sensors, Servo Control)