

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.

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

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 | Ingledmed | 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

PROJECT HIGHLIGHTS

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