JAVIER BRAVO BERNAL

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PROFESSIONAL SUMMARY

Mechatronics Engineer and M.S. candidate in Applied Artificial Intelligence at Baruch College. 4+ years of experience in automation, control systems, and data-driven optimization. Strong background in PLC programming, Python, SQL, and business analytics. Proven ability to implement technical solutions that improve operational efficiency, reduce downtime, and increase profitability. Seeking opportunities in AI, Data Analytics, and technology-driven roles.

TECHNICAL SKILLS

- Automation & Controls: Rockwell (Allen Bradley) PLC, TIA Portal, SCADA/HMI, IEC 61131-3, Robotics, Sensor Integration
- Programming & Data: Python, SQL, R, C, 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 | 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.

Business Operations & Data Analyst (Owner) | Family Healthcare Business | Ecuador | 2021 – 2022
- Built data dashboards using Python, SQL, and Tableau to optimize inventory and customer retention.
- Increased profitability by 8% through cost optimization modeling and supplier analysis.
- Improved monthly revenue by 10% using customer behavior analytics and demand forecasting.

EDUCATION

M.S. in Applied Artificial Intelligence (In Progress) Baruch College – New York, NY | 2025–Present
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)