



JONATHAN CORPUS

DEVELOPER | ELECTRONICS & AUTOMATION ENGINEER | SYSTEMS ADMINISTRATOR



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[Web Site](#)



[Video Introduction](#)

ABOUT ME

Electronics and Automation Engineer with experience in developing control systems, embedded solutions, and real-time monitoring for industrial applications. Skilled in PLC programming, C/C++, C#, and data-driven tools like Power BI. Quick to adapt and integrate software with hardware to drive product innovation and deliver reliable, user-focused solutions.

PROFESSIONAL EXPERIENCE

KIA MEXICO

June 2024 - June 2025

Developer & Systems Administrator Engineer - Maintenance department - Pesqueria, N.L

- Designed and implemented custom internal web applications to digitize maintenance request logging and status tracking, reducing paper-based processes and improving response times.
- Developed interactive dashboards in Power BI to visualize asset history, failure frequency, and downtime trends for strategic maintenance decisions.
- Prototyped real-time monitoring systems and assessed AI-based predictive models for current and vibration analysis to prevent equipment failures.
- Coordinated with technology providers to evaluate and pilot digital tools aligned with maintenance and equipment reliability goals.
- Implemented industrial Ethernet-based systems for equipment monitoring, ensuring communication with PLCs and SQL Server databases.

HOSPITAL UNIVERSITARIO (UANL)

December 2023 - May 2024

Digital Health Solutions Developer - Neurology Department - Monterrey, N.L

- Developed Windows Forms applications in C# to guide patients through motor tasks, supporting data acquisition for predictive models in stroke recovery.
- Validated AI model outputs and ensured data integrity through hands-on testing and user interface adjustments.
- Translated patient rehabilitation progress into quantifiable metrics to assist clinical decision-making processes.
- Contributed to the technical documentation of tools and processes to support usability and reproducibility

EDUCATION

B.Sc. in Electronics and Automation Engineering

FIME - Universidad Autónoma de Nuevo León (UANL)

2020 - 2025

SKILLS

Technical Skills

- C#, C/C++, Python, MATLAB, STM32 Microcontrollers, Control systems, PLC Programming, HMI Development, Power BI, SQL Server, Git, SVN, Analog & Digital Electronics, Power Electronics, Industrial Ethernet & basic Modbus, Advanced Excel & Report Automation, Oracle ERP, Azure Services & PowerApps Development

Soft Skills

- Problem-solving, Analytical thinking, Cross-functional communication, Fast adaptability, Tech initiative leadership, Creativity, Empathy, Process optimization & Projects administration, Custom Orientation & Negotiation, Process Documentation & Compliance

LANGUAGES

- English: Conversational fluency – confident in speaking and understanding native and non-native speakers
- German: Basic proficiency (actively learning)