

# Jorge Alejandro Falcón Álvarez

Computer Systems Engineer (Professional License: 8259277)

Automation Architect | RPA Technical Lead | Enterprise Automation

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<https://jfespanolito.dev>

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## PROFESSIONAL SUMMARY

Automation Architect and Computer Systems Engineer with 14+ years of experience designing, scaling, and governing enterprise automation platforms. Specialist in RPA using UiPath, automation architecture, and Center of Excellence (CoE) operations.

Developed 35+ production robots in critical environments, generating over \$3M MXN annually through process optimization and governed automation.

Strong background in enterprise systems integration, the .NET ecosystem, and AI integration within business workflows. I also develop personal projects focused on system design and digital tooling, including the tactical RPG platform “Echoes of the Beasts.”

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## CORE COMPETENCIES (Tech Stack)

- **Languages & Programming:**
    - C#, Python, TypeScript, JavaScript
  - **Automation & RPA**
    - UiPath Platform (Studio, Orchestrator, Queues, Assets)
    - Workflow Automation: n8n
  - **Backend & Systems Integration**
    - .NET Ecosystem
    - REST / API Integration
    - Enterprise Integration Patterns
    - Data Processing (XML, Structured Data Pipelines)
  - **Infrastructure & DevOps**
    - AWS, Azure
    - Docker, Git
    - IIS / Windows Server
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## PROFESSIONAL EXPERIENCE

AxxiS Consulting SA de CV

RPA Automation Team Lead

January 2021 – Present | Mexico City, Mexico

- **Key Achievement:** Optimized the generation and delivery process of client financial reports (large XML datasets containing sensitive data), reducing operational time from 4 hours to 1 hour and enabling 15-minute delivery cycles through 35+ unattended UiPath automations, generating +\$3M MXN annually and eliminating manual workload for 10 operators.
- **Architecture & Design:** Designed and operated an enterprise RPA architecture using UiPath Orchestrator (on-premise) supporting 35+ unattended robots and over 40 automations, leveraging queues, assets, centralized credentials, scheduled triggers, and centralized logging to support daily operations across multiple business units.
- **Leadership & Governance:** Led the consolidation of the RPA Center of Excellence, establishing development standards, project templates, naming conventions, operational runbooks, and technical documentation, while overseeing technical quality, incident management, and production automation operations.

## Integrated Technology (ITWEB)

### RPA Development Consultant – UiPath

July 2018 – January 2020 | Mexico City, Mexico

- **Architecture & Design:** Designed and implemented the initial UiPath RPA infrastructure, defining Dev, QA, and Production environments, project structures, tools, and components required for enterprise automation operations.
- **Solution Architecture:** Performed process analysis and technical design of RPA automations, defining modules, workflows, and integration mechanisms with client systems.
- **DevOps / Infrastructure:** Implemented environment standardization and deployment practices across Dev, QA, and Production environments, establishing the operational foundation for the automation lifecycle.
- **Knowledge Transfer:** Trained client teams in the operation of their RPA Center of Excellence, delivering technical manuals, To-Be documentation, and operational guides for robot deployment, management, and maintenance.

## T-Systems Mexico

### .NET Consultant

September 2015 – June 2019 | Mexico City, Mexico

- **Platform Engineering:** Maintained and operated enterprise applications for the Mexican Tax Administration Service (SAT) including web portals, backend services, and cross-system integrations, running on .NET, IIS, and Windows/Unix server infrastructure for mission-critical fiscal operations.

- **Operational Automation:** Designed and developed a multifunction internal tool in C# (Windows Forms) automating RFC task scheduling, shift management, technical documentation search, and internal communication, reducing operational penalties by 95%.
- **Operational Architecture:** Implemented stress-testing environments and load simulations to replicate production conditions during high-demand periods (Annual Tax Declarations), identifying bottlenecks and improving system stability.
- **System Operations & Integration:** Performed controlled IIS deployments, Windows service maintenance, and BizTalk orchestration support, as well as server configuration after migrations or cloning processes within strict operational procedures.

## Optimus Sistemas Holísticos

### Web / .NET Developer

June 2012 – August 2015 | Villahermosa, Tabasco, Mexico.

- **Platform Architecture:** Designed and developed an operational monitoring system for PEMEX pipeline infrastructure, built with ASP.NET, WCF, SQL Server, and BizTalk, enabling nationwide capture, analysis, and visualization of operational field data.
- **Data Engineering:** Designed and optimized the relational database (+40 tables), developing stored procedures, functions, and query optimizations, maintaining 250+ business rules used to evaluate operational conditions and trigger alerts.
- **Risk & Alert Systems:** Implemented a rule-based engine integrated with BizTalk to process pressure, temperature, and operational pipeline data, generating automatic alerts and email notifications for critical events such as overheating or explosion risks.
- **Operational Visualization:** Developed an interactive dashboard using HTML5, JSON, and Kendo UI, displaying real-time metrics and alerts across pipelines, zones, states, and time periods, supporting operational monitoring and decision-making.

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## EDUCATION & CERTIFICATIONS

**Computer Systems Engineering** | Universidad Autónoma de Guadalajara | 2008 - 2011.

**Continuous Education** | Platzi | 2022 - Present

### Certifications Core:

- **Claude by Anthropic:** Introduction to MCP & Advanced MCP (2026).
- **n8n:** Professional Workflow Automation (2026).
- **UiPath:** Advanced RPA Developer & Orchestrator Management.
- **Soft Skills:** Emotional Intelligence & Feedback Management (Platzi).

**Full Library:** 70+ additional certificates available at <https://www.jfespanolito.dev/#Certificados>.

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## PROJECTS

### Echoes of the Beasts

## Complex System Design and Digital Platform

Personal project in development

- Designed and developed a rule-based tactical narrative RPG system alongside a web platform for character management, dynamic bestiary, and campaign tools.
- Implemented combat mechanics and progression through a rule-based system and mathematical models for encounter and ability balancing.
- Developed the platform using Next.js, TypeScript, and Tailwind, deployed on Vercel.

**Technologies:** Next.js, TypeScript, Tailwind

**Areas:** System Design, Game Mechanics Design

**Platform:** <https://echoesbeasts.com>

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## Ocho MX

### Web Platform for Local Business

Project in development

- Developed a web portal for an artisan ice cream brand allowing customers to explore the menu, learn about the brand, and request event quotations.
- Implemented a static-first web architecture optimized for performance and SEO using Astro.

**Technologies:** Astro, TypeScript, Tailwind, Vercel

**Platform:** <https://ochomx-com.vercel.app>

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### Portfolio Platforms for Digital Artists

- Designed and developed portfolio websites for digital and 3D artists, focusing on visual presentation, performance, and accessibility.
- Implemented static-first architectures using Astro and TypeScript, deployed via Vercel.

**Technologies:** Astro, TypeScript, Tailwind

**Websites:** <https://midrava.com>, <https://veronicahope3d.com>