

# Miguel Angel Ladines Asencio

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## Summary

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Bilingual English C2 native spanish Electronics Engineer with +5 years of experience across IoT, embedded systems, industrial automation, and cloud infrastructure in international corporate environments. Proven track record designing end-to-end hardware-software solutions from circuit design and firmware development to cloud deployment and system integration while delivering measurable business impact in diverse industrial aswell corporate environments.

## Projects

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### Insurance Analytics Data Platform

2025

End-to-end insurance analytics data pipeline implementing from dataset generation, to prepare BI-data ready for consumption by Google Studio Looker for public showcase of Dashboards and KPIs.

- Implemented an end-to-end insurance analytics pipeline covering from dataset generation to dashboard Showcase.
- Applied data quality checks and basic governance rules to ensure consistency, integrity and analytical usability.
- Produced analytical views and dashboards to support portfolio, claims and performance analysis.

### Multi-Model AI Chatbot Platform

2025

Self-hosted a scalable and secure public access of a multi-LLM AI chatbot webapp deployed on GCP.

- Docker-based deployment with NGINX as reverse proxy and secure connection with TLS/HTTPS.
- Integration of OpenWebUI as opensource chatbot webapp and OpenRouter as multi AI API provider.
- Full Cloud Architecture design and deployment on GCP.
- VPS hardening through custom: UFW rules, SSH config, WireGuard VPN and fail2ban.
- Tested platform through CURL request via direct public API aswell through webapp chat interface.

### SmartCrops – IoT Solution Architecture

2025

Pre-MVP technical architecture project focused on the design and documentation of an end-to-end IoT solution for agricultural monitoring.

- Defined full end-to-end IoT solution blueprint, covering from edge devices to data consumption layers.
- Designed device-to-cloud communication flows using MQTT and TCP/IP for scalable telemetry ingestion.
- Produced technical architecture documentation FSR/SAD/ADR, diagrams and design decisions to guide future implementation.

## Experience

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### Systems Engineer, Independent Consultant – Aurora, Daule - Ecuador

July 2025 – present

- Delivering end-to-end IT consulting and technical execution, from requirements analysis to implementation and ongoing operational support.
- Providing L1-L2 technical support across Windows and Linux environments, including hardware diagnostics, system recovery and troubleshooting.
- Implementing and maintaining small-scale infrastructure solutions (LAN/WLAN, routers, switches, backups and basic security controls).
- Developing and documenting technical projects and portfolio solutions aligned with real-world IT use cases.

### IoT Solutions Engineer, Independent Consultant – Caracas, Venezuela

Oct 2024 – Mar 2025

- Designed an end-to-end IoT system architecture for an agricultural automation MVP.
- Defined roles and responsibilities for edge controllers, embedded devices and cloud components.
- Designed data flows, communication patterns and integration points between edge and cloud layers.
- Selected communication protocols and architectural patterns suitable for constrained environments.
- Delivered complete technical documentation covering system design, data models and security considerations.

**IoT Solutions Engineer**, Soluciones Administrativas Cobremex, C.A. – Caracas, May 2024 – Sept 2024 Venezuela

- Led the technical proposal and architectural design for a vehicle access control IoT system
- Defined hardware components, edge devices and communication protocols.
- Designed cloud integration strategy for monitoring and future service expansion.
- Evaluated interoperability with existing toll and transportation systems.
- Produced detailed architectural and technical documentation for internal validation and client review.

**Embedded Hardware Engineer**, Anyware Venezuela, C.A. – Caracas, Venezuela Mar 2024 – May 2024

- Designed a custom Raspberry Pi HAT PCB integrating sensors and communication interfaces
- Diagnosed and resolved hardware and connectivity issues in field deployments on clients site.

**Embedded Hardware Engineer**, Paytech Corporation C.A. – Caracas, Venezuela Feb 2023 – Feb 2024

- Coordinated technical support operations for a digital parking and payment system.
- Led the redesign of an ESP32-based controller board, migrating to SMD technology.
- Improved manufacturability, reliability and cost efficiency of the hardware design.
- Provided field engineering support for installations and maintenance nationwide

**Field Service Engineer**, Thermo Fisher Scientific VE – Venezuela / LATAM Nov 2021 – Dec 2022

- Installed, commissioned and serviced SEM and TEM scientific instrumentation.
- Performed preventive and corrective maintenance on high-precision laboratory equipment.
- Diagnosed complex electromechanical and vacuum system issues.
- Coordinated logistics for spare parts procurement and service interventions.
- Executed international field service operations across LATAM.
- Produced detailed service reports and technical documentation for internal and client use.

**IT Support Technician**, Independent Consultant – Caracas, Venezuela Jan 2020 – Oct 2021

**Multimedia Systems Engineer**, Corporación Audvintech C.A. – Caracas, Venezuela Sept 2019 – Dec 2019

- Performed preventive maintenance of corporate videoconferencing and multimedia systems
- Supported multimedia server rooms and audiovisual infrastructure
- Delivered technical training sessions to client IT and operations teams
- Supported maintenance projects across multiple LATAM locations

## Education

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**University New Sparta**, Bachelor of Science in Electronics Engineering – Caracas, 2010 – 2018 Venezuela

- Thesis focused on Agrotech Industry. Embedded systems, automation and IoT. Designed custom PCB and firmware in C. Developed Android interface for system monitoring and control.

## Tech Stack

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**Summary:** Python, C, JavaScript, SQL, Bash, PowerShell; ESP32, Raspberry Pi, Arduino, Docker, NGINX, Git, GitHub, Bitbucket, CI/CD, Google Cloud, AWS, Oracle Cloud, DigitalOcean, Hostinger; Linux (Debian/Ubuntu), WireGuard, PostgreSQL, Supabase, Prisma ORM; MQTT, TCP/IP, LAN/WLAN, VPN, UFW; OpenRouter AI LLM, LM Studio, Google Looker Studio, Jira, Trello, Notion, Figma, Canva, AutoCAD (2D), Cloudflare, Microsoft 365, Google Workspace

## Certifications

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- English C2 Certification (EF SET, April 2025)
- Networking Fundamentals (CISCO)
- Audio/Video Systems Associate (Extron USA)
- Project Management (FIMP)
- Customer Service (CIAP UCAB)