

Miguel Angel Ladines Asencio

Aurora, Daule - Guayas, Ecuador. EC090910 | ladinesmiguel770@gmail.com | 099 159 7140
dev-mikel.github.io/dev-mikel/profile-english.html | linkedin.com/in/ladinesmiguel | github.com/dev-mikel

Summary

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

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

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, Venezuela May 2024 – Sept 2024

- 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

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

- 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

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

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