

Fernando Aguilar Marín

Communications and Electronics Engineer

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Professional profile

Communications and Electronics Engineer specialised in Computing, graduated from ESIME at the National Polytechnic Institute (IPN). I build cross-platform mobile apps with Flutter and Dart, websites and web portals, and REST API integrations. I currently work as a web, mobile and software development engineer; before that I worked in technical support and Business Intelligence (Power BI, Qlik Sense, SQL). On the side, I take on freelance projects under Ingenio con Aguilar.

Technical skills

Languages

C · C++ · C# · Java · JavaScript · TypeScript · PHP · Python · Dart · SQL

Mobile

Android Studio (native) · Swift (native iOS) · iOS and Android apps · Flutter · Firebase · Google Maps SDK · Riverpod

Data and BI

SQL Server · MySQL · Power BI · DAX · Qlik Sense · ETL / Pentaho

Change control and infrastructure

Git and GitHub · Branches and pull requests · GitHub Actions · Netlify / Cloudflare Pages · DNS and SSL

Web

HTML5 · CSS3 / SCSS · Astro · Vue · React · Angular · Three.js · Full stack

Environments

Visual Studio Code · Visual Studio · Android Studio · NetBeans · Code::Blocks · Dev-C++

Systems and technical support

Windows, Linux and macOS · Basic to advanced support · Preventive and corrective maintenance · Equipment optimization · Servers and NAS · Accounts and access · LAN networks · Office suite (intermediate–advanced)

AI and teaching

AI-assisted development (intermediate) · Mathematics and calculus · Programming and web development · Portals and apps with Flutter and React · iOS and Android mobile apps

Experience

Web/Mobile Development Engineer · Software Development Engineer

Feb 2026 – present

TAO México · Santa Fe, Mexico City

- Development of web and mobile applications and custom software with Flutter, Dart and web technologies.
- Building responsive, accessible interfaces with HTML5, CSS3/SCSS, JavaScript and TypeScript, and with Astro, Vue, React and Angular.
- Cross-platform mobile apps with Flutter and Dart, and native apps with Android Studio and Swift (iOS).
- Business logic and integration of REST APIs and databases (SQL Server, MySQL).
- Team change control with Git and GitHub: branches, pull requests, code review and history.
- Publishing sites and applications with domain, DNS and SSL (Cloudflare Pages, Netlify, Render).
- Testing, bug fixing, technical documentation and AI tools as a development aid.

Experience (continued)

Technical Support Engineer

Nov 2025 – Feb 2026

KAPA 9 Innovation S.A. de C.V. · Mexico City

- Technical support activities of every kind: handling and resolving incidents for users and computer equipment, from basic to advanced level.
- Diagnosing hardware, software and network faults and restoring service.
- Installation, configuration and maintenance of equipment, operating systems (Windows, Linux, macOS) and software.
- Equipment performance optimization: cleanup, updates, system tuning and preventive maintenance.
- Guiding users and recording the solutions applied.

Freelance · own studio

Independent

Ingenio con Aguilar · Mexico City

- Bilingual websites, portals and mobile apps, with domain, hosting, SEO and support: JADE Marketing, TAO México and Joy Tree Akumal.
- Creator of MexYoani (my graduation project), and advisor, mentor and contributor to the build of MexiOlnemi: urban mobility apps in Flutter.
- Full project cycle: requirements, design, development, publishing and follow-up support, with code and accounts handed to the client.
- Mathematics and calculus classes, plus classes and courses in programming, web development, web portals and apps with Flutter and React, and iOS and Android mobile apps.

Web and Business Intelligence developer

2019 – 2024

DEVOC · Mexico City · Freelance

- Internal web applications and websites; SQL queries, stored procedures and reports in XLS, PDF and CSV.
- Dashboards with Power BI and DAX and solutions with Qlik Sense; ETL processes with Pentaho and Python.
- Modelling and querying relational databases (SQL Server, MySQL) and automating reports with Python.
- Gathering requirements from user areas and delivering dashboards and reports for decision-making.

Technical support

2020 – 2024

ESIME – National Polytechnic Institute · Mexico City

- Diagnosis and maintenance of computer equipment; Windows and Linux installation.
- Basic local network administration and LAN infrastructure maintenance.
- User support and resolution of computer and network incidents.
- Optimization and preventive maintenance of equipment.

Selected projects

MexYoani · mobility with real-time maps

My graduation project. Flutter app to follow Metro trains in real time on interactive maps, with a route planner, news and service notices (Firebase, APIs).

MexiOlnemi · urban mobility app

Advisor, mentor and contributor to its build. Flutter app with eleven transport systems, optimal routes using Dijkstra over 7,510 nodes, service status and real-time vehicles with Firebase.

JADE Marketing · bilingual corporate site

Website for a marketing agency, with method, capabilities, manifesto and contact form, in Spanish and English.

Dashboards and data processing

Power BI dashboards with SQL and DAX; Python scripts to extract, integrate and automate reports.

Education

National Polytechnic Institute · ESIME
2019 – 2025 · B.Eng. in Communications and Electronics, specialisation in Computing.

Technological High School
2016 – 2019 · Technician in Computer Science.

Technical Middle School No. 209
2013 – 2016 · Technician in Computer Science.

Certifications and courses

- Flutter, advanced level
- Flutter, intermediate level
- Flutter, expert level
- Advanced HTML, CSS and JS (includes PHP and MySQL)
- Augmented reality, advanced level
- React and Angular (in progress)

Languages

Spanish	Native
English	Basic