

SAJED LOPEZ MENDOZA

Full-Stack Engineer · IoT & AI Systems · Mobile & Web Architecture

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PROFESSIONAL SUMMARY

Multidisciplinary engineer with 10+ years architecting end-to-end systems across full-stack web, mobile, embedded hardware, and machine learning. Proven track record of delivering cloud-connected dashboards, computer vision AI deployments, and microcontroller-based IoT systems with solar power integration. Experienced in managing the complete product lifecycle — from concept and fabrication through deployment and maintenance. Combines deep software engineering expertise with hands-on hardware skills including PCB design, 3D printing, and renewable energy systems.

TECHNICAL SKILLS

Languages & Core: Python, PHP, Java, JavaScript, TypeScript, Kotlin, Dart, C++, C#, C, SQL, HTML5, CSS3

Frameworks & Libraries: Laravel, Node.js, Express, Flask, .NET, React, Next.js, Vue.js, Flutter, Tailwind, Bootstrap

AI & Machine Learning: TensorFlow, PyTorch, scikit-learn, YOLO, OpenCV, Face Recognition, OCR, CNNs, RNNs

Embedded & IoT: ESP32, ESP8266, Arduino, Raspberry Pi, PID Control, LVGL, GPS, RFID, Nextion, Fusion 360, Fritzing

Infrastructure & Tools: MySQL, SQLite, MongoDB, Firebase, Supabase, Git, SSH, Docker, REST APIs, WebSocket

EXPERIENCE

Key Solutions Inc.

Pasig City

Full-Stack Developer

- Architected and deployed an end-to-end GPS fleet tracking platform integrating AVL hardware, Ubuntu-based backend services, and interactive web and Android dashboards serving hundreds of vehicles in real time.
- Built custom Android applications featuring live vehicle tracking, route history playback, and geofence-based alerting, delivering a complete fleet management solution to end users.
- Optimized data ingestion pipelines reducing latency by 40%; collaborated with cross-functional teams to align technical deliverables with business objectives.

Infinittech Training Center

Lucena City

Android Development Trainer

- Trained and mentored students in Android fundamentals and 2D game development using Android Studio, guiding them from basic programming to publishing complete applications.
- Delivered structured code reviews, debugging workshops, and project-based instruction aligned with Google Android development standards, resulting in strong certification outcomes.

QPPD (Quezon Province Programmers / Developers)

Remote

Principal Developer | 2017 – Present

- Delivered 30+ full-stack, mobile, and IoT projects for clients including government LGUs, schools, and businesses — web appointment kiosks with biometric authentication, AI-powered waste segregation, emergency dispatch CAD platforms, and smart agriculture monitoring.
- Built end-to-end embedded IoT systems using ESP32, Arduino, and Raspberry Pi with PID control, LVGL touchscreen HMI, GPS tracking, RFID access control, and cellular communication across solar-powered deployments.
- Designed and fabricated custom hardware enclosures via 3D printing, performed PCB integration and soldering, and deployed off-grid solar and wind power systems for IoT operation in remote rural locations.
- Managed complete project lifecycles from client consultation and system design through implementation, testing, deployment, and ongoing support.

