EDGAR MAYOL

Sr. Software Engineer | Expert in automation, distributed systems and mobile first solutions

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SUMMARY

Software engineer with over 8 years of experience developing impactful solutions in high-demand industrial environments. Led the replacement of legacy and regional systems, automated critical workflows, and developed real-time inventory and tracking platforms. Specialized in scalable architectures, system reliability, and seamless user experiences across mobile and desktop platforms. Focused on innovation, efficiency, and measurable results.

EDUCATION

- **B.S. in Computer Systems Engineering (focused on Software Development)**
  Instituto Tecnológico de Saltillo · 2008–2012

- **Master's in Artificial Intelligence (In Progress)**
  UNIR Online

TECHNICAL SKILLS

- **Languages:** Python, C++, C#, Java, Swift, JavaScript, SQL

- **Frameworks/Tools:** ASP.NET, SwiftUI, Spring, Firebase, SQL Server

- **Specialties:** Automation, APIs, distributed systems, mobile apps, IoT sensors

- **Other:** Power BI, Scrum, PDCA, Outlook API, Visual Studio, Xcode, Arduino

CERTIFICATIONS

- Microsoft Professional Certificate – Full-Stack Developer *(in progress, Coursera)*

- IBM Professional Certificate – IT Scrum Master *(in progress, Coursera)*

- Microsoft Professional Certificate – Python Development *(Coursera)*

- Introduction to Scrum Master *(SkillUp EdTech)*

- REST APIs with .NET Core and C# *(Udemy)*

AWARDS & RECOGNITION

- 🏆 **"Leader of Leaders"** – FCA NAFTA award for innovation in computerized maintenance systems

- 🔷 LOMS and Tapping Tool recognized for regional scalability and measurable operational impact

- 🚀 Real-time sensor prototype showing 20% improvement in shortage detection now in pilot rollout

EXPERIENCE

Toyota Motor Manufacturing de Guanajuato
July 2018 – Present

🛠️ **Tapping Tool – Mobile/Desktop App for Production Support Operations**

- Developed a cross-platform application to manage planned and unplanned tapping events across production lines during **two-shift operations**.

- **Eliminated the need for second-shift support** in the Parts Ordering department by enabling real-time search of material status and availability.

- **Integrated with internal databases and systems** related to logistics, production planning, and inventory control.

- The tool is currently in use by over 200 users and expanding to 3 additional plants (~1,000 users total).

🛠️ **LOMS – iOS App for Overflow Inventory Management & Audit Automation**

- Replaced a web-based legacy regional system with a native iOS app designed for speed and usability.

- **Introduced 2-tap box registration,** QR-based material tracking, and automated auditing with real-time discrepancy reporting via email.

- **Deployed to 250+ users;** currently under review to become the standard across multiple regional plants including Texas and Baja California.

🛠️ **Real-Time Material Monitoring System with Custom Sensors**

- **Designed** and implemented a sensor-based system to automatically monitor material availability on production lines without human intervention.

- **Resolved network latency** and data loss by redesigning the architecture with a master-access point and distributed nodes.

- **Improved material shortage detection time by 20%** compared to manual methods; currently in pilot phase in the most critical area of the plant.

🔧 **Additional Contributions**

- Built 10+ internal automation tools and 5+ mobile applications to streamline repetitive workflows and reduce operational overhead.

- Developed and maintained scalable APIs using **ASP.NET** connected to **SQL Server,** enabling seamless data exchange across systems.

- Transformed and structured raw operational data from both custom-built and legacy systems to feed **Power BI dashboards** used for departmental KPIs, decision-making, and performance tracking in the **Production Control & Logistics (PC&L)** area.

Jr. Developer	Database Engineer
Stellantis Engine Plant	**Stellantis Engine Plant**
Apr 2017 – Jun 2018	*Jan 2015 – Mar 2017*

Jr. Software Developer

IBM Campus Tecnológico Guadalajara
Jun 2012 – Dec 2014