

# Luis Lopez

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## EXPERIENCE

Toshiba

Guadalajara, JAL, MX

Software Engineer III

Mar 2025 - Present

- Managed customer migration to newer **POS** software versions, validating custom code integration and requesting infrastructure stream setup through Agile workflows
- Upgraded Ingenico's RBA\_SDK by implementing **Java** method overloads to enable accurate international character display on Axiom pin pads
- Resolved production bugs and worked on technical debt in **C++** POS system deployed to US and Canada retail clients
- Coordinated release language translations for new software versions by updating configuration files
- Created **AI**-assisted **Python** Tkinter applications to automate development environment configuration, distributing tools to improve developer productivity

McDonald's

Mexico City, MX.

Software Engineer II

Nov 2024 - Mar 2025

- Maintained and improved POS system modules by addressing tech debt, bug fixes and feature updates in **C++** (legacy) and **C#** (modern).
- Supported platform integration efforts by working on software responsible for updating binaries across stores.

GlobalLogic

Guadalajara, JAL, MX

Software Engineer (Automotive team)

Jun 2024 - Sep 2024

- Triaged and resolved blocker/critical bug tickets for a **Linux**-based infotainment system, improving system stability for future deployment in vehicles.
- Developed a power management feature for LCD's aimed at improving energy efficiency.
- Reproduced bugs using hardware environments, ensuring a high closure rate for blocker/critical issues.

Omron

Guadalajara, JAL, MX

Software Engineer (2nd engineer)

Oct 2022 - Jun 2024

- Worked on sustaining activities for mobile robot platforms, resolving client-reported bugs of varying complexity while gaining proficiency in the **C/C++** codebase.
- Developed a **UART** bootloader for the PIC32 MCU, allowing remote firmware updates through a web UI, reducing the onsite update process by 50%.
- Improved the charging state machine for the LD series battery, ensuring an accurate display of parameters via RS-232, improving efficiency in automated tasks for robot fleets.
- Improved the HD series **HMI** panel for better text display, supporting centered text and multiline messages, facilitating operator interaction.

Accenture

Nuevo Leon, MTY, MX

Data Engineering Associate

Mar 2022 - Oct 2022

- Completed a 1-month data academy focused on **AI**, **Cloud** (**Azure**), **SQL**, **Python** and various data tools to enhance technical expertise.
- Collaborated as part of an agile team to develop an internal tool for global financial data management, migrate legacy **Java** backend code to a **C#** microservices architecture and manage data storage with **SQL**.

## SKILLS

**Languages:** C/C++, Java, Python, C#, SQL, JavaScript, HTML/CSS

**Tools:** Git, Docker, Azure, ROS 2, Codex, Claude Code

## EDUCATION

University of Guadalajara, Sc.B. in Communications and Electronics

2010 – 2015

Engineering, Guadalajara, Jalisco, Mexico.