

José Emiliano Riosmena Castañón

Software Engineer / Computer Science Student



EDUCATION

Tecnológico de Monterrey - *B. S. in Computer Science and Technology*

Expected graduation: June 2025

Courses:

GPA: 92.3 / 100

- Data Structures and Algorithms
- Web/Mobile Development
- Cybersecurity and Networks

EXPERIENCE

GE Aerospace - *LSE Intern*

June 2023 - August 2023

DXL, Microsoft Excel, DOORS

- I implemented over **10 new features** and **6 standard works** to reduce time delivery and costs for the certification process of a software version for GENx-1B and GENx-2B.
- The project outcomes are **actively utilized** by the **GEIQ Controls Team**
- Automation of over **7 processes** reduced time from **several hours or days** to a **few minutes** or less than **2 hours**.

GE Aerospace - *EID Intern*

August 2023 - Present

Python, Perl, DXL, Bash, Unix, Microsoft Excel

- I developed a **Python tool** to model the **performance results** of an aircraft engine's modules.
- The tool served as a solution to the issue of **lost access to the GPLUS tool**, providing the team with a new alternative and **move to the Python tool**.
- The software is **actively used by the U.S. GE Aerospace team**.
- I assist with the **automation** of more than **8 tools** for the processes of **4 different aircraft projects**.
- Currently assisting with a **SAF project** for the construction of a **new laboratory** at the **Aeronautical University of Queretaro (UNAQ)**.

PROJECTS

Green Circle- *Web & Mobile platform*

October 2023

- I developed a **web and mobile platform** for ICM company, enabling users to **connect with various service providers** offering clean technology solutions.
- The project integrates various **APIs** to simplify the user's ability to **locate different service providers** and understand how they can benefit them.

Number Pop- *Math game web platform*

June 2023

- I developed an **educational video game for elementary school children**, designed to make **learning and reinforcing** addition, subtraction, multiplication, and division **fun and engaging**.
- I utilized Flask to enable the game to be **hosted on a website**, ensuring **public access and ease of use**.

Systarch - *Dispatch Health* - *Full Stack Web Platform*

May 2023

- I created a **web application** where users could **monitor their progress on various projects and tasks** through graphical representations.
- I employed the **MVC architecture** to enhance the structure, maintainability, and organization of the project's files.

Smart Shipping - *IoT Web Platform*

December 2022

- I developed a system for **monitoring and regulating the temperature** of a container to ensure that the transported **food remains at its ideal temperature**.
- Utilized **IoT** to measure the temperature of the container and employed **Arduino** to enable the **automatic activation or deactivation of the fan based on predetermined temperature thresholds**.

SKILLS

- Languages: Python, C/C++, Java, JavaScript, HTML/CSS, React, Node.js, R, Rust, MATLAB, TypeScript, SQL, C#, Perl, Bash, DXL, Kotlin, Swift.
- Technologies: MySQL, VS Code, Git, Firebase, Arduino, PostgreSQL, Odoo, Arduino, Android Studio, Xcode, Figma, AWS, Excel, DOORS, PowerPoint, Unix, Ubuntu, Linux, Word, Wordpress, Nginx, Canva.

EXTRACURRICULARS AND AWARDS

- **TOEFL iBT B2** English Level.
- Member of the **ACM** student group. (2022 - present)
- I participated in the 2023 **Lean Summer Experience** at **GEIQ**.
- **Golden Ram** award for active participation in the American football representative team.