Miguel Ángel Mireles Vázquez

+524641669968 | ma.mirelesvazquez@ugto.mx | linkedin.com/in/mamv3x3 | github.com/MAMV3x3

Education

Universidad de Guanajuato — Salamanca, Gto
B. S. in Digital Systems and Robotics (GPA: 94.1/100) — *Graduating in June 2026*

High School ENMS Salamanca — Salamanca, Gto
Mechatronics Technician (GPA: 99.3/100) — *August 2018 – June 2021*

Courses and Certifications

Exploratory Data Analysis Course — December 2022 – Present
Platzi — *Online course*

Mathematics Course for Data Science: Descriptive Statistics — August 2022
Platzi — *Online course*

ECMAScript 6+ Certification Course — June 2022
Platzi — *Online course*

React Advanced Course — March 2022 – May 2022
Platzi — *Online course*

JavaScript Professional Course — January 2022 – March 2022
Platzi — *Online course*

Terminal and Command Line Course — December 2021
Platzi — *Online course*

Profesional Git and Github Course — November 2021
Platzi — *Online course*

Projects

ISS tracker and collision avoidance web app | *JavaScript, Satellite.js, React, Three.js, Git* — October 2022

- An open-source web app, where the user can know the actual location of the **International Space Station**, check for real coalitions alerts with space trash and space debris, satellites and space bodies detected.
- Integrated **Satellite.js** to track satellite propagation via TLEs.
- Developed for NASA space apps challenge 2022 in a period of **48 hours**.

State machine for candy vending machine | *VHDL, C, Git* — May 2022

- As part of a work team, we designed and programmed the state machine for a candy vending machine in **VHDL**, which accepts different types of coins and returns the respective change.

Step by step matrix calculator | *C++, Qt, Git* — November 2021 – December 2021

- Project developed in **C++** with the purpose of facilitating the performance of various operations that involve arrays.
- Implemented **Qt** to show solutions step by step in a comfortable interface for the user.

BeeTutor | *JavaScript, HTML, CSS, SQLite, Git* — February 2021

- I worked together with my team on a project consisting of a web page designed with the purpose of facilitating tutoring systems between student-student and student-teacher.
- Developed for Universidad de Guanajuato's hackaton 2021 in a period of **48 hours**.

Basketball Robot | *C, React Native, Pic Microcontroller, 3D design* — November 2020 – January 2021

- I build a robot controlled from a Bluetooth application in order to compete in a tournament of robots playing basketball.
- The robot was programmed in C using **pic microcontrollers**.
- The application was first designed in **Figma** and then programmed with **React Native**.

Technical Skills

Languages: C/C++, Python, JavaScript, HTML/CSS, MATLAB, VHDL
Frameworks: React, Node.js, Chakra UI
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Eclipse