

Education

Royal Melbourne Institute of Technology

Study abroad coursework in a project of Formula SAE and Artificial Intelligence.

Melbourne, AU

July 2024 – December 2024

Instituto Tecnológico y de Estudios Superiores de Monterrey

Bachelor of Engineering, Robotics and Digital Systems, Mexico City Campus (94/100 score)

Mexico City, MX

August 2021 – July 2025

Experience

Instituto Tecnológico y de Estudios Superiores de Monterrey

Kbang - Vice-President

Mexico City, MX

February 2023 – February 2024

- A student group for the Korean culture, music and beauty.
- Organizing and making new activities, therefore the community feel welcome and united for their tastes.

Kalé - Finance Coordinator

July 2019 – July 2021

- A student group that was the bridge between the high school students and the institution.
- We make many activities for the students, so they can have a better socialization and time in the school.
- Coordinating the finance of the group, searching where we can have incomes to make all the activities that we have plan.

Project

Instituto Tecnológico y de Estudios Superiores de Monterrey

John Deere Project

Mexico City, MX

August 2023 - December 2023

- A control system for a DC motor for a scale car.
- Detect the rpms generated by the motor depending on the speed with an encoder and display it on an LCD.

Intel Project

February 2023 – June 2023

- A system that detects the energy consumption of different light bulbs.
- Compare the brightness and its consumption with reality and what the packaging indicates

FPGA Project

February 2023 – June 2023

- It is a video game called Battleship programmed with an FPGA and controlled by a DPAD.
- The DPAD sensor helps us be the control to choose the squares to attack.

Activities

HackMX5 – 3 Place

Mexico City, MX

November 2023

- Working with Thales in a Hackathon for a problematic that they have.
- I make a real time 911 transcript that recognize the emotions of the caller with an incorporation of a visualization of where the emergency is.

CANSAT Competition - Semifinalist

Mexico City, MX

February 2023 – May 2023

- Working in a Pico size Artificial Satellite, supposed to have a egg and components that would send the information of position, acceleration and velocity of the satellite when it was release from 100m.

Skills & Interests

Technical:

C++ - Intermediate
Python - Advance
C - Intermediate
VDHL - Intermediate

MATLAB - Advance
Arduino - Advance
ROS2 - Intermediate

Language:

Spanish - Native
English - B2

Interests: Automotive systems, machine learning, power train, driving technologies, performance car design, racing car design, artificial intelligence