

# Carlo Angel Lujan Garcia

COMPUTER SCIENCE STUDENT

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## EDUCATION

### B.S. Computer Science and Technology

Tecnológico de Monterrey

08/2020 - 06/2024

Zapopan, México

- GDA Algorithmic Club member.
- **Python & MATLAB** course.

### Software Development Technologist

Centro de Enseñanza Tecnica Industrial (CETI colomos)

08/2016 - 06/2020

Guadalajara, México

- **Data Structures C++** course.
- **Android Studio** course.
- **ASP.NET** course.
- Web Programming (**HTML, CSS, JS**).
- **OOP in Java, C# and C++** courses.
- **PIC, ATMEGA, C and Arduino** courses.
- Databases (**SQL and MySQL**).
- Advanced Programming courses using **C# and Java**.

## PROJECT EXPERIENCE

### Thorment

Unity 2D Survival Videogame

01/2020 - 06/2020

Zapopan, México

- Survival videogame developed by a team of 5 people using Unity collab.
- The game includes mechanics to build, explore, fight bosses, complete missions, craft items, fight enemies, etc. I coded some of the enemies AI, energy & XP algorithms, platform battles, teleporting system, loading screen, mission system, NPCs, and more. I reduced memory consumption in certain areas by creating efficient algorithms.
- This is my largest project in terms of hours and we used **C#** and **Unity**. I was one of the lead programmers and also the tester to approve our work.

### OSID (Open Source Insulin Dispenser)

Scholarship Project

01/2020 - 03/2020

Zapopan, México

- Glucometer+Bluetooth+**App** connection project to control and analyze the insulin level of a diabetic person.
- Technologies used: Bluetooth, **Android Studio**, Electronics, PCB incorporation and Arduino. I was the lead programmer for the Android Studio App and developed some of the connections between the components (Bluetooth & Radiofrequency).
- Made in a team of three people. The project participated for a national entrepreneur scholarship at Monterrey Institute of Technology and Higher Education.

### DELIBEER

School Project

04/2018 - 06/2018

Guadalajara, Mexico

- A **mobile application** for ordering drinks, where users can register and "place orders" of the products in our database. The project was made in a team of two and developed in Android Studio. The app used our programmed web services via internet hosting to communicate with the app. ( **Java, MySQL, PHP** ).
- Lead web services programmer, DB designer, and Android Studio programmer.

### State transportation system authentication via RFID

Public education science fair (REDIJ de Occidente)

06/2016 - 11/2016

Guadalajara, Mexico

- A project to improve the way our state controlled the public transportation, the main idea was to improve the efficiency of the buses using a personal use precharged card and little box at each bus that was connected to a network for authentication via RFID.
- A similar system was implemented by our state government 3 years later in 2019.

## SKILLS

C#

Java

C++

Python

PHP

SQL

ASP.NET

Git

Arduino

Unity

Visual Studio

SQL Server

HTML

CSS

JS

Android

## SIDE EXPERIENCE

**AUTOMATED COMPOST AERATOR PROJECT VIA PLC** (Waste water treatment company of Los Altos S.A de C.V) (06/2020 - 08/2020)

- Team Leader of the industrial solution implementation of a compost aerator system in a 700m<sup>2</sup> area, being the main programmer for the PLC and HMI display (Sx Visual Studio + IPSoft).

## ACHIEVEMENTS

-Semi-finalist at the entrepreneurial talent scholarship bootcamp at Tecnológico de Monterrey.

-Honorific mention at the Public Education Science Fair in Guadalajara Jalisco (REDIJ de Occidente).

-One of the best 12 projects at Talent Network's hackathon final.

## EXTRACURRICULAR

-Elite runner (8:58 3K, 15:44 5K & 33:48 10K).

## LANGUAGES

Spanish (Native)

Native or Bilingual Proficiency

English (Fluent-Advanced)

Professional Working Proficiency

## INTERESTS

AI

Coding

Mobile Apps

Videogames

Learning

Technological projects

Balanced Life

Elite running

Triathlon