**Diego Vitales Medellín**

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**EDUCATION**

ITESM - Monterrey

Bachelor of Science in Computer Science and Engineering

Graduating in June 2024

Cumulative GPA: 96/100

**WORK EXPERIENCE**

7/2018 – 6/2021 LamBot 3478

Programming and Electronics Mentor

Mentored team members in OOP with Java and WPILib, and basic usage of electronic components for the FIRST Robotics Competition.

5/2020 – Present PM^2 Development and Solutions, personal project

DevOps

Created a consulting group to create, test and develop different types of projects for different customers. For example, a “WiFi lightbulb” with an Android application

8/2020 – Present Catapulta

Game Developer

Developed different features for module interactions, player movement, UI interactions, in-game scene editor, and web integration.

**MAJOR SCHOOL PROJECTS**

Spring 2019 CASS: Nerf gun shooting system aimed with computer vision (CS50 project)

Fall 2019 NASA Vending Machine: Vending machine linked to an online store; users need a QR code to retrieve the products bought in the “official” website

**TECHNICHAL SKILLS**

Programming Languages:

Java 7 years

Arduino 5 years

C/C++ 4 years

Python 3 years

SQL, PHP 3 years

HTML, CSS, JS 3 years

C# 2 years

Platforms: Win 10 (user)

Web development: Laravel, HTML, PHP, CSS, JS (intermediate)

Applications: Android Studio (intermediate)

Videogames: Unity (intermediate)

**AWARDS AND LEADERSHIP**

1st place in Robocup Soccer Junnior Primary, Torneo Mexicano de Robótica (TMR), 2015

2nd place in Robocup Soccer Junior Super Team, 2015

1st place in line follower, Tecnotronics, 2017

Regional Winner FIRST Robotics Competition, LamBot 3478, Monterrey Regional, 2018

Regional Finalist FIRST Robotics Competition, Lambot 3478, Oklahoma Regional, 2018

Regional Winner FIRST Robotics Competition, LamBot 3478, Monterrey Regional, 2019

Regional Winner FIRST Robotics Competition, LamBot 3478, Ciudad de México Regional, 2019

Regional Winner FIRST Robotics Competition, LamBot 3478, Utah Regional, 2019

Chairman’s Award FIRST Robotics Competition, LamBot 3478, Utah Regional, 2019

Recipient of the prize “Beca Titanes de México”, Make X Mexico, chaBots, 2019

2nd place Make X Challenge, 2019

3rd place in best GPA (high school, 5th semester), Spring 2020

Recipient of Excellence Scholarship for academic merit, 2020