Diego Vitales Medellín

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EDUCATION

ITESM - Monterrey

Bachelor of Science in Computer Science and Technology Engineering (ITC)

Graduating in June 2024

Cumulative GPA: 96/100

WORK EXPERIENCE

7/2018 – 6/2021   LamBot 3478

Programming and Electronics Mentor

Worked on teaching team members of the team in the areas of using different electronic components and programming to build a robot for FIRST Robotics Competitions. Students were taught Object Oriented Programming with Java in order to develop the code of the robot with WPILib

5/2020 – Present   PM^2 Development and Solutions

DevOps

Create, test, and develop proposals for mobile applications, web pages, and/or IoT projects, using tools like Android Studio, Laravel, Arduino, etc. Worked on the development of a mobile application for a "WiFi lightbulb". Designed and coded backend for a student community platform.

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