

Programing Languages:

- C++
- C
- Java
- R
- Python

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Objective: To get more experience in quantum computing programing and related fields.

Education

BCs in Computer Science Engineering (Universidad Autónoma Metropolitana)

2017 - present

Expected graduation date: September 2021

cumulative grade point average: 9.5/10

High School (Universidad Autónoma del Estado de México)

2014 – 2016

By this time, I started programing by using Karel and C++, specifically because of the Mexican Olympiad in Informatics which is the National contest that chooses the best young coders in order to attend the International Olympiad in Informatics.

Projects

IHealth (scholar project)

November 2019

We developed a software that increases the efficiency in the administration of a Hospital Network and improves the communications between patients and doctors by a user-friendly system connected to a data basis and with a friendly graphical interface.

Plotter 2D using Arduino (scholar project).

July 2019

We assembled and programmed a 2D plotter using components from MakeBlock Plotter XY kit, including 2 DC motors to manage the movement along the axes and 1 servomotor to manage the pen. All the components were controlled by using an Arduino UNO board, programmed to draw a given vector image and to control the pen movement directly by a computer's keyboard connected to the Arduino.

Gato Pro (personal project).

2016

I designed and developed this video game released in the Play Store, based on the popular Tic Tac Toe game. This project was the last part of a free course on YouTube about Android app development.

Activities and Leadership

Coach at Mexican Olympiad in Informatics

2017 – present

I currently voluntarily take part in the Mexican Olympiad in Informatics, training the Elementary and Middle School competitors that are going to represent to the State of Mexico at the National contest by using Karel and C ++.

Workshop 'Introduction to Quantum Computing ' (IBM-Instituto Tecnológico y de Estudios Superiores de Monterrey)

June 2018

I was selected as one of around 50 participants nationwide for a 40-hours professional course in Quantum Computing Basis for physicist and non-physicist, based on leadership potential and academic success.

Computational physics course (Universidad Nacional Autónoma de México)

July – September 2019

I was invited to participate in this course for having shown enthusiasm in Quantum Computing. This course is part of the BCs in physics syllabus at UNAM. The course included a review in Linear algebra, quantum mechanics, introduction to Quantum Turing Machine and some algorithms such as Deutsch-Josza's algorithm and Shor's algorithm.

Honors and awards

Second Place at the Nationals in Microsoft Office Specialist World Championship

July 2016

I was selected among more than 200 people to represent Mexico center region in the nationals. The contest measures the technical skill using Microsoft Excel and I got the second place in the National contest.

First Place at the regionals in Mexican Olympiad in Informatics

2015

This year I started to compete in the Mexican Olympiad in informatics, and I reached the first place at the regional contest at the State of México.