Alejandro Ruiz

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U.S Citizen

EDUCATION

Carnegie Mellon University Pittsburgh, PA — May 2023
Bachelor of Science in Electrical and Computer Engineering
Minor in Business Administration

SKILLS

Programming Languages: Python, HTML & CSS
Software: SolidWorks, Office 365
Spoken Languages: Spanish, English

EXPERIENCE

World Bank, IDB & IMF Washington, D.C. — Summer 2019
Business Intern

- Assigned to develop projects aimed to improve the economic and social aspects of underdeveloped countries, such as a transit system in San Salvador.
- Learned how these banks organize projects and changes in countries to reduce poverty and finance programs aimed to change public policies.

PROJECTS

Shin-Dor Soccer Pittsburgh PA — April 2020

- 2 Player Soccer game coded in Python by implementing physics kinematics, collisions detector, conservation of energy and artificial intelligence.

Mini-Mobot Introduction to Mechanical Engineering — Fall 2020

- Worked in a team to apply mechatronics and controls skills to drive a robot around a specific path.
- Coded in Arduino the commands for the robot to follow to be able to drive by following a black curved line.

Electrical Circuits Intro to Electrical and Computer Engineering — Spring 2020

- Worked as a team of two to complete hands-on labs by building different circuits.
- Gained experience in analyzing and using amplifiers, filters, sensors, digital audio, analog signals, and communications.

Suspension Alignment Rig Carnegie Mellon Racing — Fall 2019

- Designed a suspension alignment rig by using SolidWorks.
- Built the suspension alignment rig by using steel as well as machining the steel to be able to get the shape desired.

Front Rear Jigs Carnegie Mellon Racing — Spring 2020

- Designed front rear jigs using SolidWorks.
- Machined steel to match the desired ending product.

ACTIVITIES

Carnegie Mellon Racing — Fall 2019 - Spring 2020
Society of Hispanic Engineers — Fall 2019 - Present