PAOLO REYES

ROBOTICS AND DIGITAL SYSTEMS ENGINEERING

ABOUT ME

Robotics engineering student with skills in mechanics, 3D design, programming, and digital electronics. I have experience in robot design and manufacturing, microcontroller programming, sensor integration, and control system development. I am proficient in multiple programming languages and am passionate about innovation and problem-solving.

CONTACT

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SOFTWARE

- SolidWorks
- Programming Languages (Pyhton, java, C, C++, Processing, Matlab, Arduino)
- Github
- VHDL and Verilog
- SQL
- Microchip Studio

SKILLS

- Leadership
- Problem-solving skills
- CNC machining
- Electronic circuit development
- Control system design
- Programming
- English C1 level proficiency

EDUCATION

ITESM

Robotics and Digital Systems Engineering | 2021-2025 100% scholarship "Leaders of Tomorrow"

PROJECTS

Logic Design Guide

A web page to document logic circuits with examples in AHDL, VHDL and Verilog | 2023

• I'm working on a growing website to keep track of the content I see in my Digital Logic Design classes in which I pose problems to solve, show schematic solutions to those problems, and generate an example of the circuit implementation in three hardware descriptor languages (AHDL, VHDL and Verilog).

E-GoKart

Easy-to-Build Electric Go-Kart | 2018-2019

• Electric Go-Kart designed in SolidWorks and built with PVC pipes for easy assembly, the project aims to showcase the possibilities that engineering can provide.
• Awarded as the Best Project in Latin America in 2019 at the "Me to WE" competition by "DOW chemical company".

Paolo Inspires

Educational Science and Technology YouTube channel | 2022

• Personal YouTube channel where I share content on science and technology, it is mainly focused on robotics, programming, and topics related to physics and mathematics.
• It has over 1960 subscribers and more than 28800 views.

Robociety

Leader in design and implementation of control systems. | 2022

• Student group at my school where we participate in robotics competitions such as robot fights, sumo robots, collaborative robots, and maze solvers.
• My role in the team is to analyze the kinematics of the robots and generate control models from the data collected by sensors, for trajectory tracking, subsystem control, compensation of mechanical errors, etc.

ASCI!

Robotics Teacher | 2022-2023

• I teach topics on mechanics, 3D design, electronics, and programming to children aged 12 to 17 from DIF (DIF is the National System for the Comprehensive Development of the Family in Mexico).
• During the two editions of the project, we have impacted more than 60 children.