

Pedro Emiliano Sanciprian-Rodriguez

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Profile:

I'm interested in the field of biomechanics, mainly in the part of prosthetics development to help people to regain mobility by combining the knowledge I have acquired with the field of medicine. Am also interested in the field of physic simulation, specially in fluid simulation due to the complexity of calculating how a fluid will behave, this can help in the development of better scientific programs and computer graphics. I like to explore my creative side by designing 3D models of various characters and props in my spare time.

Education

Instituto Tecnológico de Estudios Superiores de Monterrey

Engineer, Robotic and Digital Systems.

Mexico City
to Today

Relevant Coursework:

- 30% Academic Talent Scholarship
- Diploma in Unreal Engine Fundamentals 5.1.1
- Implemented CAN communication for a Linear Velocity Control system.
- Implemented Bluetooth communication protocol for a refrigeration alarm project.

Colegio Anglo Americano Lomas

GPA: 97 out of 100

Basketball team representative

Interlomas, Estado de México

August 2018-June 2021

Experience

Instituto Tecnológico de Estudios Superiores de Monterrey, Digital Art Department Scholarship holder

Mexico City
February 2023 - Present

- Created and designed illustration models used in events of the department.
- Managed social media of the department to announce events.
- Staff at the events organized by the department.

Linear Velocity controller for a model car

- Implemented CAN communication to the system.
- Developed and implemented communication with Arduino IOT through a hotspot.
- Calculated controller values with the assistance of MATLAB PID designer.

Fridge door sensor

- Designed door detection software using STM32CubeIDE.
- Implemented Bluetooth communication.

Skills & Interests

Technical:

Programming Languages:

- ❖ C++ Intermediate
- ❖ C Intermediate

❖ Python Intermediate

Computational Packages:

- ❖ MATLAB
- ❖ Simulink
- ❖ ROS2
- ❖ Linux (Ubuntu)
- ❖ Arduino IDE
- ❖ AutoCAD
- ❖ Blender
- ❖ Maya
- ❖ Unreal Engine

Languages

- Spanish
- English
- Portuguese

Native

Cambridge First B2

Basic

Soft Skills:

- Teamwork
- Analytical Thinking
- Self-taught
- Problem Resolution
- Analysis
- Critical Thinking
- Adaptability

Interests

- Biomedical Engineering
- Robotic Prosthetics
- Computer Graphics
- Fluid Simulations