

Jonatan David De La Rosa Patlan

Mechatronics Engineering Student

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EDUCATION

Tecnologico de Monterrey-Campus Mty
Bachelor of Mechatronics Engineering

Expected June 2025

GPA: 93/100

Universidad TecMilenio-Campus Puebla
High School

Aug 2015-May 2018

GPA: 92/100

EXPERIENCE

Roborregos – Representative Robotics Team of ITESM

Software Developer Nov 2022-Present

Robo Cup @Home 2023

January 2023-Present

Development together with Roborregos of a robot butler capable of doing domestic chores

- Participation in the Mexican Robotic Tournament 2023
- Development of pretrained models for object detection with **Python**, **Yolov5** and **Tensor Flow**
- Automation to create datasets and Labeling through 3D files with **PolyCam**, **Python**

Robocupido 2023

January-February 2023

Valentine's day activity to find friends or a partner through questions

- Development of an algorithm to create matches between people using **Python**

Candidates 2022

August-October 2022

Robotic competition of Roborregos to enter the team

- Development of an automated robot capable of localization and mapping for path finding with **Arduino** and **C++**

John Deere – Proyecto Moldboard Tack

Design and manufacturing

February-May 2023

Development of Moldboard Tack proposal to create curvature in laminates avoiding unwanted deformations

- **Solidworks** CAD design of parts and assemblies
- Materials research and selection for prototype fabrication with **Ansys Grant EduPack**
- Development and manufacture of a functional prototype with 1060 aluminum.

SKILL

Programming Languages:

<u>C, C++</u>	3 years
<u>Python, Matlab</u>	2 years
<u>JavaScript</u>	1 year

Cad Design

<u>SolidWorks, OnShape</u>	2 year
<u>Fusion</u>	1 year

Languages

<u>Spanish</u>	Native
<u>English</u>	B2

Tecnologies

Git, GitHub, VSCode, HTML, CSS, Bootstrap, React.js, Arduino, Framer Motion, MySQL, SQL, Node.js, Next.js, Yolov5, TensorFlow, Arduino

Certificate

Scrum Fundamentals Certified	<i>By SCRUMstudy</i>
JavaScript Course	<i>By Codecademy</i>
React Course	<i>By Codecademy</i>