

## Contact:

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## José Rosendo Soto Reza Mechatronic Engineer

Mechatronic engineer with knowledge of programming, electronics, major specialization in multiplatform application development.

## Language Proficiency:

Native Spanish

Intermediate English

- Reading 90%
- Writing 90%
- Listening 70%
- Speaking 70%

## Background.

Programming  
electronics

Telecommunications

### Fletes México

<b>Job title:</b>	Systems engineer developer
<b>Learning:</b>	Web applications deployment and development
<b>Start date:</b>	August 2024
<b>End date:</b>	August 2025

### Robert Bosch

<b>Job title:</b>	Application developer technician
<b>Learning:</b>	Web applications deployment and development
<b>Start date:</b>	June 2022
<b>End date:</b>	December 2023

### Tecnológico Nacional de México Campus Cd.Juárez

<b>Title:</b>	Student
<b>Learning:</b>	Electronics, mechanics, control, programming
<b>Start date:</b>	August 2018
<b>End date:</b>	December 2022

### Centro de Bachillerato Tecnológico e Industrial No.128

<b>Title:</b>	Student
<b>Learning:</b>	Electronics
<b>Start date:</b>	August 2015
<b>End date:</b>	June 2018

## **Research and projects**

### **Investigation: How Does Industrial Internet of Things (IIoT) Work?**

Research and development of a general scheme summarizing the operation of the Industrial Internet of Things (IIoT).

[Link](#)

### **Implementation of Welding Machine Connectivity.**

Implementation of IoT connectivity to a spot-welding machine, controllable from a web interface.

[Link](#)

### **Tire System – Web Migration**

Complete migration from MS-DOS system to modern web architecture

[Link](#)

## **Electronics.**

- Reading and interpretation. of electrical diagrams.
- Ohms law.
- Kirchhoff's Law.
- Knowledge and practice use of the multimeter.
- Knowledge and practice use of breadboard.
- Connection of circuits in direct current.

## **Programming.**

- Synchronous programming.
- Asynchronous programming.
- Oriented Programming to the objects.
- Modular programming.
- Interface development user (Communication Machine Man).
- Machine-Machine Communication (M2M).
- Signals processing.
- Control and monitoring of Hardware.

## **Continuos deploy integration.**

Jenkins.  
Docker

## **Languages.**

- C++.
  - Arduino
  - Gcc
  - Platformio
- JavaScript (client, server) and typescript.
  - Node js
  - Ts-node
  - Angular
  - React
  - Vue
  - Express
- Java and Spring Boot
- HTML.
- Css.
  - Bootstrap
  - Bootswatch
- Python.
  - Flask
  - Micropython

Brython  
• Bash script.

## **Protocols**

- TCP/IP protocol.
- Serial protocol.
  - Communication through plugs.
  - HTTP Protocol (GET, POST, PUT, DELETE)
  - Packaging of information in JSON format.

## **Computer packages office.**

- Word.
- Excel.
- Power Point.
- One Note.

## **Embedded systems.**

- Pic 16f886 starter kit.
- Esp32.
- Arduino Uno.
- Arduino Mega.
- Arduino Leonardo.

## **Microcomputers.**

- Raspberry Pi 3b+.
- Raspberry Pi 4.

## **Operating systems.**

- Windows.
- Linux.
  - Rheel.
  - Ubuntu.
  - Raspbian.
  - Orange Pi Os.

## **Control.**

- Proportional control.
- Proportional-Integral Control.
- Proportional-Derivative Control.
- PID control.

## **Programmable logic controllers.**

- Plc Allen Bradley 1000 y 1200.
- Plc Siemens S7.