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Language Proficiency:

Native Spanish  
Intermediate English

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

Background.

Programming  
electronics  
Telecommunications



José Rosendo Soto Reza  
Mechatronic Engineer

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

Fletes México

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

Robert Bosch

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

Tecnológico Nacional de México Campus Cd.Juárez

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

Centro de Bachillerato Tecnológico e Industrial  
No.128

Title:	Student
Learning:	Electronics
Start date:	August 2015
End date:	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.