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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

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

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](#)

Recreational Software for develop music.

Project Software for programming melodies and/or choruses using the Tone.js library in JavaScript.

[Link](#)

Recreational Software Development for 3d rendering scenes in frontend

Project Software for programming 3d scenes using Three js library and enable 3d.

[Link](#)

PlcNode

Design and development of an industrial module similar to a programmable logic controller.

[Link](#)

Implementation of Welding Machine Connectivity.

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

[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.