**Contact:**

**Phone**: +526565741161

**Email:** Josesotoreza@gmail.com

**Portfolio:** https://josereza.github.io/

**Address:** Paseos de las mariposas 8671. Frac. Paseos del Alba

#### Language Proficiency:

Native Spanish

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

Intermediate English

* Reading 90%
* Writing 90%
* Listening 70%

**Tecnológico Nacional de México Campus Cd.Juárez**

* Speaking 70%

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

**Background.** Programming

electronics

Telecommunications

**Nodo de creatividad, innovación y emprendimiento de cd. Juárez**

**Gallery**

[link](https://josereza.github.io/images/index.html)

|  |  |
| --- | --- |
| **Title:** | Intern |
| **Learning:** | Internet of Things (IoT) technologies and Web development. |
| **Start date:** | February 2019 |
| **End date:** | June 2022  **Centro de Bachilerato Tecnológico e Industrial No.128** |

**Certifications**

|  |  |
| --- | --- |
| **Title:** | Student |
| **Learning:** | Electronics |
| **Start date:** | August 2015 |
| **End date:** | June 2018 |

[link](https://josereza.github.io/certifications/index.html)

A person wearing headphones and smiling

Description automatically generated

**José Rosendo Soto Reza**

#### Mechatronic Engineer

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

**Robert Bosch**

**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](https://josereza.github.io/proyects/investigacion_iiot/index.html)

**Recreational Software for develop music.**

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

[Link](https://josereza.github.io/music-software/src/)

**Recreational Software Development for 3d rendering scenes in frontend**

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

[Link](https://josereza.github.io/3d-software/src/)

**PlcNode**

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

[Link](https://automationnode.github.io/products/plcNode/index.html)

## Implementation of Welding Machine Connectivity.

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

[Link](https://josereza.github.io/proyects/maquina_soldadora/index.html)

**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

• 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.

• Beaglebone black.

**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.