

Manuel Piña Olivas

+52 (656)-247-7864 | manuel.pina.olivas@gmail.com | <https://github.com/Xtalism> | portfolio-d8k.pages.dev

SUMMARY

Passionate engineer with background in computer vision, embedded systems, automation, full-stack development, mechanics, and robotics. Proficient in Python and low level programming languages such as C++, C, and Rust. Focused on problem-solving, research, and collaboration. Seeking a challenging role to develop my skills in a dynamic environment.

EXPERIENCE

La Rodadora

Client Service

Apr 2019 – Oct 2019

Ciudad Juárez, MX

- Managed customer inquiries and complaints, toured foreign clients.
- Worked with children in educational workshops using Lego Mindstorms and Scratch.

FEEN Industrial

Maintenance

Nov 2019 – Apr 2020

Ciudad Juárez, MX

- PLC Panel Cable Management, and Maintenance of Industrial Machines.
- Computer maintenance and repair (software installation, hardware replacement).
- Troubleshooting and repair of electrical and mechanical systems.
- Arduino programming for industrial automation.
- Lathe and Milling Machine operation.

Vimonsa

Maintenance

Jun 2023 – Dec 2023

Ciudad Juárez, MX

- TIA Portal Programming for PLCs, panel cable management.
- Haas CNC Machine Maintenance, Operation, Calibration and Troubleshooting.
- 3D Modeling, blueprint interpretation, and CNC Programming with SolidWorks and Fusion 360.
- Quality measurement and task registration and documentation.

TECHNICAL SKILLS

- | | | | | |
|----------|----------------|-----------------|---------------|--------------|
| • Python | • SQL | • Simulink | • TwinCAT3 | • AutoCAD |
| • C++ | • JavaScript | • Docker | • TIA Portal | • Fusion 360 |
| • C | • HTML / CSS | • Visual Studio | • RSLogix 500 | • Office |
| • C# | • Git / Github | • MPLAB X IDE | • LabVIEW | • Windows |
| • Rust | • MATLAB | • PLC / SCL | • SolidWorks | • Linux |

TOOLS

Measurement Instruments: Vernier Caliper, Micrometer, CMM, Optical Comparator, Oscilloscope, Multimeter.

Machines: Lathe Machine, Milling Machine, Welding Machine. Haas VF2, VF4 and ST-10.

EDUCATION

Universidad Autónoma de Ciudad Juárez

Bachelor's in Mechatronics Engineering

Aug 2020 – Present

Ciudad Juárez, MX

CBTIS 128

Administrative Technician

Aug 2017 – May 2020

Ciudad Juárez, MX

PERSONAL PROJECTS

Failure Detection Project

Deep Learning Project

Jan 2023 – Present

Python, YoloV8, OpenCV.

- Developed an end-to-end system for fault detection in an industrial production environment — Github

CERTIFICATIONS

- Solidworks - CSWA Certificate.

LANGUAGES

English

Spanish

C1 - Advanced

Native