



# Saúl Ramírez Zavala

Aeronautical Engineer

📍 Huejutla de Reyes, Hidalgo, México

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🌐 <https://srz-ae.online>

## Skills

### Programming

C++ , Python, MATLAB/Octave



### Maintenance

Automotive and aviation



### Software

Microsoft Office, Solidworks, 3D Experience, ANSYS



## Interests

Aerospace technology

Computer Science

Physics

Materials and structures

## Languages

Spanish

Native



English

Advance C1



Dynamic and motivated Aeronautical Engineering graduate with a strong foundation in aviation-related engineering. Equipped with comprehensive knowledge of aeronautical principles and a passion for aerospace technology. Eager to apply engineering skills to innovative projects and excel in this ever-evolving field.

## Experience

**Universidad Politécnica**

**January 2023 - April 2023**

**Metropolitana de Hidalgo (UPMH)** Ex Hacienda San Javier, Tolcayuca, Hgo., México

Collaborator in Aerospace

Engineering Postgraduate

Program Research

Projects

🌐 <https://www.upmetropolitana.edu.mx>

- Structured and executed a research project focused on mathematical deflection models for semi-wings using BEM (Boundary Element Methods).

**C.I.D.T.F.A.**

**March 2022 - April 2022**

Collaborator on the

Base Aérea Militar N.º 1 de Santa Lucía, México

SI.A.GE.M.A. Project

- Collaborated in confidential projects.

**Universidad Politécnica**

**March 2021 - April 2021**

**Metropolitana de Hidalgo (UPMH)** Ex Hacienda San Javier, Tolcayuca, Hgo., México

Assistant in Reciprocating

Aviation Engine

Maintenance Course

🌐 <https://www.upmetropolitana.edu.mx>

- Received training in preventive and corrective maintenance of aviation powerplants.
- Supervised and trained a team of maintenance technicians in proper tool and equipment usage, ensuring safety compliance.

**Taller Mecánico Servicio Olímpico**

**June 2017 - August 2019**

Assistant Automotive Mechanic

Huejutla de Reyes Hgo, México

- Assisted in general workshop tasks.
- Managed minor preventive maintenance tasks.
- Maintained cleanliness and prepared workshop equipment.
- Organized and managed workshop tools and equipment.

## Projects

### On-going private project

Boundary Element Method based multi-platform desktop suit for estimating deflection on semi-wings with Python

## Certifications

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### Gasoline Engine Repair Certification

ICATHI Plantel Huejutla

**September 17, 2018 - December 20, 2018**

Completed a theoretical and practical in-person program on maintenance and repair of reciprocating gasoline engines.

### First Aid and CPR Course Certification

Curso de Primeros Auxilios S.C.

**July 6, 2019 (Intensive: 8 hours)**

Completed a theoretical and practical in-person course on providing first aid and cardiopulmonary resuscitation (CPR) in the context of actions as a first responder.

## Education

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**Universidad Politécnica Metropolitana de Hidalgo (UPMH)**      **September 2019 - April 2023**  
Bachelor's Degree

Aeronautics

9.46/10 (Equivalent to 3.78/4.0 U.S. GPA)

[🔗 https://www.upmetropolitana.edu.mx](https://www.upmetropolitana.edu.mx)

Completed Bachelor's program in Aeronautics, covering fluid dynamics, structural analysis, aerodynamics, materials science, and propulsion systems. Acquired practical experience through labs, projects, and internships, fostering strong analytical and problem-solving skills. Prepared for a career in aeronautical engineering with a focus on innovative solutions and research

**CECYTEH Plantel Huejutla**

**August 2016 - July 2019**

Automotive Maintenance Technician

High School Diploma

10/10 (Equivalent to 4.0/4.0 U.S. GPA)

[🔗 https://www.cecylteh.edu.mx/generar\\_planteles.php?id\\_plantel=9](https://www.cecylteh.edu.mx/generar_planteles.php?id_plantel=9)

Completed technical high school program in automotive maintenance, gaining hands-on training and theoretical knowledge in internal combustion engine repair, vehicle diagnostics, and maintenance procedures. Developed practical skills in automotive technologies and problem-solving, preparing for further education in engineering.