Saúl Ramírez Zavala

Aeronautical Engineer

⊙ Huejutla de Reyes, Hidalgo, México

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Skills

Programming
C++ , Python, MATLAB/Octave
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Maintenance
Automotive and aviation
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Software
Microsoft Office, Solidworks, 3D Experience, ANSYS
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Interests

Aerospace technology

Computer Science

Physics

Materials and structures

Languages

Spanish
Native
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English
Advance C1
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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 Metropolitana de Hidalgo (UPMH)   January 2023 - April 2023
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
Base Aérea Militar N.° 1 de Santa Lucía, México

Collaborator on the SI.A.GE.M.A. Project

- Collaborated in confidential projects.

Universidad Politécnica Metropolitana de Hidalgo (UPMH)   March 2021 - April 2021
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

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

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

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
High School Diploma

Automotive Maintenance Technician
10/10 (Equivalent to 4.0/4.0 U.S. GPA)
🔗 https://www.cecyteh.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.