JOSÉ RAMÓN HERNÁNDEZ

Curriculum Vitæ

Recent Renewable Energy Engineering graduate with a strong foundation in quality management, including knowledge of frameworks and tools for continuous improvement and quality management. Attentive, prudent, and meticulous, I am committed to contributing to a positive and collaborative work environment by leveraging my technical expertise. I specialize in data analysis to extract insights that support informed decisions and create efficient platforms that enhance data accessibility and knowledge sharing.

🎓 EDUCATION

Sep. 2020 — Ago. 2024

Renewable Energy Engineering
Universidad Nacional Autonoma de Mexico — 📍 Temixco, Mexico

Sep. 2023 — Jan. 2024

Business Administration Studies
Roskilde Universitet — 📍 Roskilde, Denmark

💻 PROFESSIONAL EXPERIENCE

Sep. 2024 — May 2025

Undergraduate Thesis Researcher
UNAM — 📍 Temixco, Mexico

Activities: *Developed the Dispositivo de Temperatura, Humedad, Iluminación y Sonido de Campaña (DTHIS-C), a portable, autonomous device for monitoring environmental conditions indoors and outdoors. Programmed and calibrated sensors for temperature, humidity, CO_2, luminance, and sound, ensuring data accuracy through certified reference instruments and statistical methods. Integrated data with the IoT platform ThingsBoard for real-time visualization and analysis.*

Mar. 2024 — Sep. 2024

Social Service Intern
UNAM — 📍 Temixco, Mexico

Activities: *Management and migration of large volumes of scientific data between servers using SSH and Jupyter Server, ensuring proper organization, categorization, and accessibility. Development of an informational website on wind energy in Mexico using Quarto and Visual Studio Code, integrating data visualizations, academic publications, and educational resources. Access the site: https://main—eolicaierunam.netlify.app/.*

Aug. 2021 — Sep. 2021

Assistant
Corporativo IQ160 — 📍 Coatzacoalcos, Mexico

Activities: *Specialized in instructional design and occupational health and safety, with expertise in applying Official Mexican Standards (NOM-017, NOM-026, NOM-002, NOM-009, NOM-019) to develop effective training courses for the Distance Training Program for Workers (PROCADIST) of the Ministry of Labor and Social Welfare (STPS), contributing to worker skill development, training, and accreditation to prevent occupational risks.*

✳️ CERTIFICATES

Mar. 2025 — Mar. 2025

Quality Management Foundations
LinkedIn — 📍 Online

Description: *Completed an in-depth course covering key quality management frameworks and tools. Learned to apply Deming's 14 Points, the Baldrige Excellence Framework, and ISO 9000 principles, while utilizing strategies such as Lean (Kaizen, Poka-Yoke), Pareto analysis, and Six Sigma DMAIC. Developed skills in fostering leadership, teamwork, and continuous improvement to meet customer expectations and drive long-term business success.*

CONTACT INFO

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🏛 UNAM
🗺 Mexico City, Mexico
✉ hdezagjr@gmail.com
📞 7777162890
in jrhaguilar
🐙 JRamonHA

SOFT SKILLS

Analytical thinking
Strategic problem solving
Attention to detail
Continuous learning

COMPUTER SKILLS

Advanced: Python, Shiny, Quarto and Office (Excel, Word & PowerPoint)
Intermediate: Git, HTML, CSS and shell/bash
Basic: SQL, C/C++ and Power BI

LANGUAGES

Spanish: Native
English: C1
Italian: Conversational

Mar. 2025
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Mar. 2025

Introducción a la calidad
UNAM   📍 Online

Description: *Gained a comprehensive understanding of quality management systems, with a focus on ISO 9000 and practical quality tools. Studied the Deming cycle, Kaizen, and the Toyota Production System, including methodologies like 5S, Just-In-Time, and Kanban to optimize operations. Also explored key aspects of capacity planning, facility location, plant layout, and inventory management, along with sustainable practices based on ISO 14000 for environmental responsibility.*

Aug. 2024
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Mar. 2025

IBM Data Analyst
IBM   📍 Online

Description: *Completed an intensive 11-course program covering key data analytics principles and practical techniques. Developed expertise in data manipulation, analysis, and visualization using tools such as Excel, SQL, Python, Jupyter Notebooks, and Cognos Analytics. Gained hands-on experience with real-world datasets, applying advanced SQL skills, including table creation, joins, subqueries, and Python integration to drive data-driven insights. Demonstrated proficiency in building interactive dashboards, performing comprehensive data analyses, and presenting actionable reports, effectively preparing for an entry-level role in data analytics.*

Jul. 2024
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Dec. 2024

Python: de cero a analista de datos
UNAM   📍 Online

Description: *Learned about Python installation and syntax using Jupyter Notebook. Explored the ETL and EDA methodologies using Pandas and Matplotlib for data handling. Applied advanced strategies for data management and the development of reproducible projects in data handling and visualization.*

Sep. 2024
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Sep. 2024

Getting Started with Git and GitHub
IBM   📍 Online

Description: *Gained foundational knowledge of version control in collaborative coding and DevOps. Developed skills in using Git for distributed version control, managing repositories and branches on GitHub.*

💬 ORAL COMMUNICATIONS

Jan. 2025

Ciencia de datos
Collaboration on "La Araña Patona," a podcast organized by Juan Manuel Valero at Radio UNAM.   🎧 Podcast

📍 Online