David Fernando Martinez

Mechanical Engineer | AI Specialist | Bilingual Professional

302-846-8858 | fernandomartinezd3@gmail.com

PROFESSIONAL SUMMARY

Mechanical Engineer with hands-on experience in mechanical design, CNC machine operation, and additive manufacturing processes. Proven leadership as former President of the ASME Central University Section in Colombia, driving technical projects and team collaboration. Skilled in optimizing manufacturing workflows and implementing innovative solutions to enhance efficiency and product quality. Advanced knowledge in Artificial Intelligence, including generative and applied models, with a broad understanding of its potential across industries to drive innovation, streamline processes, and solve complex challenges.

AREAS OF EXPERTISE

- **CNC Machining & Manufacturing Optimization:** Proficient in CNC machine operation, programming, and workflow optimization to enhance precision, reduce production times, and improve overall efficiency in manufacturing processes.

- **Mechanical Design & 3D Modeling:** Advanced skills in mechanical design and CAD software, creating innovative and functional designs tailored to meet complex engineering challenges.

- **Additive Manufacturing & 3D Printing:** Expertise in 3D printing technologies, from prototyping to production, leveraging cutting-edge techniques to deliver high-quality, cost-effective solutions.

- **Artificial Intelligence Applications:** Advanced knowledge in AI, including generative and applied models, with a focus on integrating AI-driven solutions across industries to innovate, automate, and solve complex problems.

- **Programming & Software Development:** Skilled in programming languages and software tools, enabling the development of tailored solutions to streamline processes and enhance system functionality.

- **Customer Service Excellence:** Strong focus on delivering exceptional customer experiences, leveraging communication skills and problem-solving abilities to build lasting relationships and ensure client satisfaction.

PROFESSIONAL EXPERIENCE

Rocky Mountain Inventory., Edmonton, AB, Canada

Data Analyst | Aug 2024 – Aug 2025

- **Inventory Auditing:** Conducted on-site inventory assessments for 50+ client locations, ensuring data accuracy and identifying discrepancies.
- **Comparative Analysis:** Analyzed historical inventory data to detect trends, variances, and areas for optimization, improving stock accuracy by 20%.
- **Predictive Reporting:** Delivered detailed inventory management reports, including predictive models and actionable insights, enabling clients to reduce stockouts by 15%.
- **Profitability Insights:** Calculated and presented profit margins for key products, helping clients identify high-performing items and optimize inventory strategies.

Intouch CX Colombia, Bogotá D.C.

Customer Service Agent | Nov 2024 – Apr 2025

- **Order Management:** Processed and managed over 70+ customer orders daily, ensuring accuracy and timely delivery.
- **Customer Service Excellence:** Maintained a 95% customer satisfaction rate by resolving inquiries efficiently and providing personalized support.
- **Sales & Promotions:** Increased sales by 15% through strategic promotion of offers and upselling additional services.
- **Escalation Handling:** Successfully managed escalated cases, resolving complex issues and ensuring customer retention.

Universidad Central de Colombia, Bogotá D.C.

ASME Division President | Feb 2023 – Feb 2025

- **Leadership & Team Management:** Directed a team of 25+ members, ensuring task delegation and alignment with organizational goals.
- **Project Management:** Successfully planned and executed 5+ engineering projects, managing budgets of up to $5,000 and delivering results on time and within scope.
- **Recruitment & Growth:** Increased section membership by 30% through targeted recruitment strategies, engaging both students and alumni.
- **Event Organization:** Coordinated 10+ university events, including engineering contests and workshops, attracting over 500 participants and fostering collaboration with other ASME sections and universities.
- **Public Speaking & Presentations:** Delivered project presentations to audiences of 100+ attendees, showcasing cost analysis and project outcomes effectively.

Universidad Central de Colombia, Bogotá D.C.

Monitoring Professor | Feb 2023 – Nov 2024

- **Subject Expertise:** Provided academic support in Thermodynamics and Machine Design, assisting over 50 students per semester in mastering complex engineering concepts.
- **Customized Learning:** Developed tailored study plans and practical exercises, improving student performance by 20% on average in final assessments.
- **Mentorship & Guidance:** Conducted weekly sessions to clarify doubts, foster critical thinking, and enhance problem-solving skills, contributing to a 90% course completion rate.
- **Collaborative Teaching:** Partnered with faculty to align monitoring sessions with course objectives, ensuring consistency and reinforcing key learning outcomes.

Admicity LTDA, Bogotá D.C.

Building Manager | Feb 2020 – Apr 2024

- **Budget Management:** Oversaw annual budgets exceeding $150,000, ensuring efficient allocation of resources and cost optimization.
- **Customer Service Excellence:** Resolved 95% of resident inquiries and complaints within 48 hours, maintaining high satisfaction levels.
- **Building Supervision:** Managed operations across 10+ residential buildings, supervising maintenance, security, and cleaning personnel.
- **Team Leadership:** Directed a team of 15+ staff members, implementing training programs to improve performance and service quality.

David Fernando Martinez

Mechanical Engineer | AI Specialist | Bilingual Professional

302-846-8858 | fernandomartinezd3@gmail.com

LANGUAGES & TOOLS

- **Languages:** English, Spanish, French
- **Engineering Tools:** SolidWorks, AutoCAD, CATIA, Inventor, Fusion 360.
- **CNC Tools:** G-code programming, M-code programming, Mastercam, Fusion 360 CAM, Siemens NX.
- **3D Printing:** Cura, PrusaSlicer, Simplify3D, Hands-on experience with FDM, SLA, and SLS 3D printing technologies.
- **Artificial Intelligence & Programming:** Python, MATLAB, Javascript, C++, Data analytics with Excel and AI tools
- **General Software Proficiency:** Office Suite, Adobe Suite, Google Workspace, Slack, Microsoft Teams.

EDUCATION

- **Professional in Mechanical Engineering,** Universidad Central de Colombia | 2025
- **Generative AI for Project Managers Specialization,** Coursera | 2025
- **Curso de Prompt Engineering,** Platzi | 2024
- **CAD, CAM and CNC operation,** Universidad Central de Colombia | 2024