

José Alberto Solis Villarreal

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Supply chain and data professional with 5+ years of experience supporting global manufacturing operations. Proven track record of analyzing operational processes, consolidating data from multiple sources, developing automation and AI-enabled solutions, and partnering with cross-functional stakeholders to improve execution, visibility, and efficiency. Hands-on supply chain and SAP experience with technical expertise in Python, SQL, Power BI, APIs, and machine learning to transform complex operational data and processes into scalable solutions and actionable insights.

EDUCATION

Centro de Investigación en Matemáticas Aplicadas, Universidad Autónoma de Coahuila

2020-2023

Master's in Data Science and Optimization

CORE COMPETENCIES

Data Management | Data Analysis | SQL | Python | Power BI | Operational Reporting | Automation | API Integration | AI/ML Solutions | Process Optimization | Continuous Improvement | Digital Transformation | SAP Operations | Supply Chain Processes | Cross-functional Collaboration | Stakeholder Coordination | Technical Communication | Customer Support

PROFESSIONAL EXPERIENCE

John Deere | Central Parameters Data Engineer

Nov 2024 - Present

- Lead data and process automation supporting SAP-enabled supply chain operations across **57 manufacturing plant codes and three SAP environments**, consolidating operational requirements, data, and regional business rules into scalable solutions.
- Partner with manufacturing sites, software engineering teams, business stakeholders, and leadership across the **U.S., Mexico, Argentina, Brazil, and Europe** to resolve operational issues, identify bottlenecks, prioritize initiatives, and improve service execution.
- Lead automation for high-volume supply chain processes across multiple business regions, increasing the share of tasks processed through automation from **~39% to ~62% year over year; the latest monthly volume reached 9,414 automated tasks versus 5,251 manual tasks**.
- Develop AI-enabled and data-driven solutions for supply chain decision-making, including a production machine-learning solution that automates material classification across **20+ U.S. manufacturing plants**.

John Deere | Senior Parameter Analyst

Apr 2023 - Nov 2024

- Established and scaled Python-based automation for high-volume supply chain processes, transitioning manual and Excel macro-based activities into scalable software solutions supporting U.S. and Mexico operations; **processed 85K+ SAP changes, representing ~22% of all team activity** within 2024.
- Used SAP data, operational records, and stakeholder knowledge to investigate process discrepancies, uncovering issues beyond the initial findings, coordinating mass corrections, and implementing validation improvements to prevent recurrence.
- Supervised and developed two grade six direct-report supply chain analysts, establishing priorities, providing technical coaching and performance feedback, and aligning individual development with service-level expectations, including a 1-day processing target for operational requests.

John Deere | View Extender**Oct 2021 - Apr 2023**

- Supported U.S. manufacturing operations through SAP material master parameter updates, source list maintenance, PO and contract creation, and parameter change requests.
- Developed VBA automation tools to streamline repetitive SAP processes, improving team efficiency and extending automation benefits across U.S. and Mexico operations.
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Incora | Indirect Buyer**Aug 2018 - July 2019**

- Managed indirect material procurement for multiple U.S. industrial customer sites, coordinating sourcing, purchasing, supplier delivery, and usage-based invoicing across manufacturing and energy operations.
- Supported integrated supply management contracts for customers including AAM, Dana, GenOn, NRG, Detroit Diesel, John Deere, and Mercury Marine.

DeAcero | CAD Mechanical Designer**Aug 2018 - July 2019**

- Reverse-engineered high-cost European spare parts for steel rolling equipment, using precision metrology tools including vernier calipers, micrometers, and gauge blocks to capture dimensions, tolerances, and critical component features.
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