

Edgar Narvaez

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Professional Summary

Accomplished **Senior Manufacturing Engineer** with 20+ years of experience driving **automation, process optimization, and continuous improvement** in complex manufacturing environments. Expert in **mechanical systems design, production planning, and ERP/MRP integration**. Proven record of implementing Lean and Six Sigma initiatives that enhance safety, quality, and productivity while reducing cost and waste. Known as a hands-on leader who bridges engineering design and operations to deliver projects on time, within budget, and with measurable ROI.

Core Competencies

- **Automation & Robotics** – Fixture design, error-proofing, robotic integration, process automation (F.I.R.S.T. Robotics)
 - **Lean Manufacturing & Kaizen** – Waste reduction, 5S, standard work, continuous improvement culture (Lean Six Sigma Green Belt)
 - **Project Leadership** – From concept to production: design, build, validation, and handoff
 - **ERP/MRP Systems** – SAP (BOMs, routings, capacity planning, production scheduling)
 - **Tooling & Equipment Design** – Prototyping, assembly fixtures, test stands, and tooling
 - **Cross-Functional Collaboration** – Operations, quality, planning, and supply chain
 - **Technical Skills** – SolidWorks, AutoCAD, DraftSight, Microsoft Office, PLC fundamentals (Engineer-in-Training Certified)
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Professional Experience

ABB Motors and Mechanical Inc. – Industrial AC Motors

Technical Service Specialist | Dallas, TX | 09/2024 – Present

- Partner with manufacturing and operations to **analyze production bottlenecks** and design corrective actions.
- Lead **root cause analysis (RCA)** and implement **CAPA** solutions improving first-pass yield and uptime.
- Optimize **work centers, BOMs, and routings in SAP**, ensuring production efficiency.
- Provide **technical mentorship** to technicians and engineering staff on troubleshooting and process optimization.

TECO-Westinghouse Motor Company – Industrial Motors

Manufacturing Engineer / Technical Services Manager | Round Rock, TX | 11/2013 – 08/2024

- Led **automation and process improvement projects** across assembly and machining lines, increasing throughput by 15%.
- Designed **fixtures, jigs, and error-proofing systems** to support lean manufacturing and new product launches.
- Managed full project lifecycle — from **concept and design to build, testing, and deployment**.
- Implemented **Lean Six Sigma** initiatives reducing scrap and rework while boosting OEE performance.
- Served as **technical advisor and mentor** for junior engineers; led Kaizen events and operator training sessions.
- Collaborated with cross-functional teams to align **capacity planning, material readiness, and production goals**.
- Supported automation ROI studies and ensured adherence to budget, safety, and compliance standards.

Taprite-Fassco Manufacturing – Beverage Systems

Project Engineer | San Antonio, TX | 08/2010 – 10/2013

- Led continuous improvement and line optimization projects.
- Collaborated with operations and purchasing to **streamline component logistics**.
- Conducted process validations and capability studies to improve equipment performance and reduce downtime.

Ultra Clean Technology – Semiconductor Manufacturing

Project Engineer | Austin, TX | 06/2006 – 07/2010

- Supported cleanroom assembly through **process documentation, automation integration, and compliance audits**.
- Spearheaded the development of **data tracking systems** to improve production traceability and efficiency.

Lancer Corporation – Beverage Dispensing Products

Project Engineer | San Antonio, TX | 02/2001 – 05/2006

- Designed and validated production fixtures and assembly tooling for new product lines.
- Conducted **FMEA, SPC, and process risk assessments**, improving manufacturing reliability.
- Assisted in **equipment layout and automation planning**, reducing lead times.

Education

Bachelor of Science in Mechanical Engineering

The University of Texas at Austin | 1995 – 1999