

MOHAMMAD AL-ARAIDAH

Industrial & Manufacturing Quality Engineer

Industrial Equipment · RCA / FMEA / SPC · Supplier & Equipment Readiness · SAP S/4HANA · Power BI · SQL
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SUMMARY

Industrial engineer and Lean Six Sigma Green Belt with manufacturing and industrial-equipment experience across quality improvement, root-cause analysis, equipment acceptance, and manufacturing process validation. Reduces scrap and defects, qualifies new production equipment against defined acceptance criteria, and leads cross-functional manufacturing readiness at industrial pump manufacturing sites — backed by SAP S/4HANA, SQL, Power BI, and statistical analysis.

SELECTED MANUFACTURING & QUALITY IMPACT

- **15% scrap reduction** — Root-cause analysis and SPC on high-volume production lines; a parallel value-stream mapping program captured an additional \$180K.
- **10% defect reduction / \$43K** — Quality initiative built on statistical analysis and process redesign; 1st place, Lozier Co. national quality competition.
- **Multi-site process validation** — Engineering-through-shipment process validation for two industrial pump plants supporting \$200M+ in operations.

EXPERIENCE

Flowserve — SAP Business Implementation Project Manager, Industrial Pumps

Jan 2026 – Present

- Lead manufacturing-process readiness for an SAP S/4HANA deployment across two industrial pump plants (\$200M+ in operations), coordinating Engineering, Quality, Supply Chain, Planning, Operations, and IT to validate end-to-end manufacturing processes before production release.
- Develop and execute end-to-end manufacturing validation scenarios covering engineering release, BOM and routing, material planning, procurement, receiving, production, quality inspection, warehousing, shipment, and financial integration.
- Established issue-closure governance for process validation: every critical defect requires defined ownership, corrective action, objective evidence, retest, and site sign-off before it is considered closed.
- Own the work-instruction and process-documentation inventory for both sites; build readiness dashboards tracking defect aging, closure status, and site readiness for leadership.

Signify — Manufacturing / Industrial Engineering Manager

Nov 2024 – Jan 2026

- Cut scrap 15% through structured root-cause analysis and SPC on high-volume manufacturing lines; a parallel value-stream mapping program captured an additional \$180K.
- Defined acceptance criteria and led vendor run-off and buy-off for new production equipment — verifying build conformance to specification, cycle time, and process capability before release to production.
- Owned PFMEA, control plans, work instructions, and inspection criteria for the production area; drove corrective action on recurring defect modes using MES and shop-floor data.
- Led a 9-person team and the improvement agenda; time studies, line balancing, and standard work raised gross utilization 20% (\$250K+ annual) and cut changeover time 18%.

AutoOps AI — Founder & Product Engineer

Nov 2025 – Present

- Build an AI platform for manufacturing quality workflows — FMEA, CAPA, 5-Why root-cause analysis, nonconformance tracking, and quality reporting — with SAP integration; 35 discovery interviews and a 20-user pilot at a manufacturing company.

Epic Systems — Data Aggregation Engineer

Jun 2024 – Sep 2024

- Built SQL/ETL pipelines processing 500K+ records and improving data quality 30%, feeding real-time operational dashboards.

The Walt Disney Company — Industrial Engineering Intern

May 2023 – Aug 2023

- Built Python predictive and optimization models that cut Disney Cruise Line port wait times 25%; redesigned transportation and material flow for an 82% cost reduction (\$120K annual).

Tenneco — Continuous Improvement Intern

May 2022 – Aug 2022

- Delivered \$1.3M in savings through Lean Six Sigma analysis and simulation of Ford production-line layouts; built Power BI dashboards for real-time visibility across multiple plants.

TECHNICAL SKILLS

Quality Engineering: Root-cause analysis (5-Why, fishbone, fault tree), FMEA, 8D, CAPA, nonconformance (NCR) and corrective action, control plans, SPC and process capability (Cp/Cpk), inspection and acceptance criteria, first-article and incoming inspection, process validation, traceability, ISO 9001.

Manufacturing & Lean: Lean Manufacturing, Six Sigma Green Belt, value stream mapping, Kaizen, standard work, time studies, line balancing, layout and material-flow design, equipment acceptance and run-off, simulation (Simio, Monte Carlo).

Equipment & Technical: Industrial pumps and rotating equipment, mechanical drawings and GD&T, P&IDs and process flow diagrams, build-to-print verification, MES, AutoCAD, SolidWorks.

Systems & Data: SAP S/4HANA (QM, PP, MM, IM/EWM), Python (Pandas, NumPy, scikit-learn), SQL, R, Power BI, Tableau, Excel (VBA).

EDUCATION & CERTIFICATION

Iowa State University — B.S. Industrial Engineering, Minor in Data Science

GPA 3.80

Lean Six Sigma Green Belt — IISE (Feb 2022) · John Deere National Warehouse Optimization Competition — 4th Place, National