

Milan Holloway

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SUMMARY

Senior Quality Engineer with eight years advancing product and **process quality** across aerospace and regulated medical device manufacturing. Leads APQP, PFMEA, **Control Plans**, **Process Flow Diagrams**, PPAP, MSA, **Gage R&R**, 8D investigations, MRB decisions, supplier quality, and statistical analysis. Translates production evidence, customer requirements, audit findings, and quality metrics into practical risk controls. Partners with Manufacturing, Engineering, Operations, Supply Chain, and Quality teams during real time issue resolution, work transfers, process changes, and readiness reviews. Bilingual in English and Spanish, with a Bachelor of Science in Mechanical Engineering and experience presenting findings to leaders, customers, suppliers, and auditors. Brings disciplined corrective action, Lean Manufacturing experience, SAP knowledge, and regulated manufacturing judgment to quality programs that protect compliance, delivery, and customer confidence.

EXPERIENCE

Senior Quality Engineer, Aerospace Manufacturing

July 2022 - Present

Caribe Aero Components

Caguas, PR

Owns quality performance for **aerospace manufacturing** cells, guiding cross functional investigations, process controls, customer commitments, supplier issues, audits, and readiness decisions.

- Led **8D** containment reviews for customer escapes, restoring production control and verified corrective action.
- Built APQP packages with **PFMEA**, Control Plans, **Process Flow Diagrams**, MSA, and PPAP evidence.
- Directed **MRB** reviews using specifications, traceability, and risk evidence for defensible dispositions.
- Closed work transfer readiness gaps through process control reviews before production acceptance.
- Presented supplier trends, audit findings, defect data, and **KPIs** to leaders and customers bilingually.

Quality Engineer, Aerospace Manufacturing

March 2020 - June 2022

Precision Flight Systems

Bayamón, PR

Supported regulated electromechanical production through statistical risk analysis, supplier coordination, audit preparation, Lean Manufacturing improvements, and quality system documentation.

- Applied PFMEA, Control Plans, **Gage R&R**, **MSA**, and statistics to strengthen critical controls.
- Investigated production deviations with **Manufacturing** and Engineering, documenting **corrective actions** in SAP quality records.
- Coordinated supplier defect follow up through SAP records, preserving traceability and response accountability.
- Prepared objective evidence for internal and **customer audits**, moving findings through documented closure.
- Facilitated **Lean Manufacturing** improvements that reduced process friction without weakening required quality controls.

Quality Engineer, Medical Device Manufacturing

June 2018 - February 2020

MedAxis Manufacturing

Humacao, PR

Supported regulated **medical device operations** through nonconformance control, measurement studies, process documentation, MRB evidence, audits, and improvement reporting.

- Evaluated device **defects** with root cause methods, establishing containment before broader production release.
- Maintained **Process Flow Diagrams** and **Control Plans** as equipment and inspection methods changed.
- Prepared MRB evidence from inspection records, specifications, and manufacturing history for review.
- Conducted measurement studies and statistical analyses that validated inspection method performance.
- Prepared audit records and quality **reports** for compliance reviews and improvement decisions.

Associate Quality Engineer, Precision Manufacturing

June 2017 - May 2018

AeroFab Research Manufacturing

Mayagüez, PR

Supported precision manufacturing quality under senior engineer guidance, reviewing inspection evidence, nonconformances, process maps, supplier documents, and measurement studies.

- Reviewed inspection records against drawing and process requirements, identifying evidence gaps for senior review.
- Documented **nonconformances** and gathered objective evidence for root cause and corrective action discussions.
- Updated process maps and inspection checkpoints under senior engineer guidance during manufacturing changes.
- Collected dimensional data for **Gage R&R** and MSA exercises supporting inspection confidence.
- Prepared defect and inspection trend summaries for manufacturing quality reviews and supplier discussions.

PROJECTS

Aerospace Process Transfer Readiness 📅 2024

Protected production continuity by aligning APQP evidence, PFMEA, Control Plans, PPAP acceptance, and readiness gates during process transfer.

Supplier Quality Evidence Review 📅 2022

Improved supplier response discipline through SAP traceability, defect evidence, audit support, and clear corrective action follow up.

LEADERSHIP & AWARDS

- ASQ Certified Quality Engineer recognition, reflecting advanced application of regulated quality engineering methods.
- Lean Six Sigma Green Belt achievement, supporting practical waste reduction and process improvement work.
- Senior engineer leadership across aerospace and medical device quality investigations, audits, and corrective action reviews.

EDUCATION

Bachelor's Degree in Mechanical Engineering

2017

University of Puerto Rico at Mayagüez GPA: 0

Mayagüez, PR

Coursework: Quality engineering, manufacturing systems, statistics, materials science

CERTIFICATIONS

- ASQ Certified Quality Engineer 📅 2023
- Lean Six Sigma Green Belt 📅 2021

TECHNICAL SKILLS

- **Quality Planning:** APQP, PFMEA, Control Plans
- **Process Documentation:** Process Flow Diagrams, work instructions, readiness gates
- **Corrective Action:** 8D, root cause analysis, CAPA
- **Measurement Systems:** MSA, Gage R&R, inspection validation
- **Statistical Quality:** Six Sigma, statistical analysis, capability studies
- **Production Quality:** Nonconformances, deviations, defect containment
- **Supplier Quality:** Supplier quality management, supplier audits, defect follow up
- **Quality Systems:** Quality management systems, SAP, traceability
- **Audit Compliance:** Internal audits, customer audits, regulatory audits
- **Manufacturing Improvement:** Lean Manufacturing, process improvement, waste reduction
- **Material Review:** MRB, specifications, disposition evidence
- **Transfer Management:** Work transfers, process changes, PPAP acceptance

SKILLS

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|---------------------------|-------------------------|-------------|----------------------|
| • Quality Engineering | • Control Plans | • 8D | • Lean Manufacturing |
| • Aerospace Manufacturing | • Process Flow Diagrams | • MSA | • SAP |
| • APQP | • PPAP | • Gage R&R | • Supplier Quality |
| • PFMEA | • MRB | • Six Sigma | |

PROFESSIONAL AFFILIATIONS

- ASQ quality engineering community, connecting professional practice with disciplined manufacturing improvement.
- Puerto Rico manufacturing engineering network, supporting bilingual collaboration across regulated operations.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST