

Armani Chang

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SUMMARY

Supplier Development Engineer with 10 years of progressive manufacturing and **supplier quality** experience across **power systems, heavy equipment**, industrial components, and precision machined assemblies. Leads supplier evaluation, certification, audits, incoming inspection, defect analysis, **corrective action**, process controls, and quality assurance planning across complex supply networks. Assesses machinery, production methods, process capability, inspection systems, and supplier quality records, then converts findings into practical controls and measurable performance expectations. ASQ Certified Quality Engineer and ASQ Certified Supplier Quality Professional with strong command of manufacturing standards, continuous improvement, structured problem solving, supplier relationships, and cross functional governance. Guides engineers and supplier teams through critical issues, communicates technical risk clearly, and supports sound certification and escalation decisions.

EXPERIENCE

Senior Supplier Development Engineer

April 2023 - Present

Summit Forge Power Components

Fort Wayne, IN

Leads **supplier development** for machined and fabricated power system components, directing qualification, auditing, corrective action, performance governance, and supplier coaching across critical manufacturing relationships.

- Built **supplier certification** protocols using audits, capability reviews, defect history, and **corrective action** evidence.
- Directed critical defect resolution through root cause analysis, containment verification, and repeatable **process controls**.
- Evaluated supplier **machinery setup**, tooling, process flow, inspection methods, and control plans during assessments.
- Connected defect trends, audit findings, delivery concerns, and corrective actions within supplier performance records.
- Coached engineers and supplier personnel on quality planning, **process improvement**, and evidence based closure.

Supplier Development Engineer

January 2020 - March 2023

Great Lakes Motion Systems

South Bend, IN

Managed **supplier quality** for powertrain and **heavy equipment** components, combining inspection planning, manufacturing audits, failure analysis, supplier coaching, and cross functional recovery communication.

- Built inspection plans defining acceptance criteria, documentation, **evaluation** methods, and escalation paths for suppliers.
- Analyzed recurring failure modes, directing corrective actions toward process conditions affecting assembly reliability.
- Conducted audits covering machinery condition, setup, process controls, operator instructions, and inspection systems.
- Guided suppliers through **quality assurance plans, process controls**, data reviews, and repeat audit verification.
- Presented supplier risk and recovery status to engineering, procurement, manufacturing, and leadership audiences.

Supplier Quality Engineer

June 2017 - December 2019

Midwest Engine Technologies

Lafayette, IN

Supported **supplier quality** for engine system castings, machined parts, and purchased assemblies through defect investigation, process audits, corrective action tracking, and documentation improvement.

- Investigated incoming **defects** across material, machining, setup, handling, and inspection conditions.
- Performed supplier process audits, tracking corrective actions through objective evidence of sustained control.
- Developed control plan and inspection improvements for recurring component quality issues.
- Reviewed supplier reports for technical clarity and coached contacts on **corrective action** verification.
- Converted supplier **lessons learned** into consistent escalation, documentation, and follow up practices.

Manufacturing Quality Engineer

July 2016 - May 2017

Hoosier Precision Manufacturing

Indianapolis, IN

Supported quality control for precision machined **industrial** components through hands on CNC machinery evaluation, incoming inspection, variation analysis, documentation updates, and audit preparation.

- Verified CNC **machinery setup** and inspected precision components against drawings and specifications.
- Investigated variation through machine conditions, tooling, setup parameters, operator methods, and inspection results.
- Updated inspection instructions and **process controls** for critical dimensions and recurring defect risks.
- Assembled audit records, verified procedure adherence, and tracked **corrective action** progress.
- Communicated quality findings to machinists, supervisors, engineers, and purchasing personnel with practical recommendations.

PROJECTS

Supplier Certification Framework 📅 2024

Questioning old approval habits often reveals stronger supplier decisions. Created a certification framework combining audits, capability evidence, defect history, corrective action performance, and documented approval criteria.

Machinery Risk Assessment Program 📅 2022

A machine can pass inspection and still signal future failure. Developed an assessment approach covering setup, tooling, process flow, controls, maintenance indicators, and inspection practices.

LEADERSHIP & AWARDS

- ASQ Certified Quality Engineer recognition, earned 2021 for demonstrated quality engineering capability.
- ASQ Certified Supplier Quality Professional recognition, earned 2024 for supplier quality expertise.
- Led cross functional supplier recovery teams, earning leadership trust through clear risk communication and verified closure.

EDUCATION

Bachelor's Degree in Mechanical Engineering

Purdue University GPA: 3.5

2016
West Lafayette, IN

Coursework: Manufacturing systems, Mechanical design, Materials science, Quality engineering

CERTIFICATIONS

- ASQ Certified Quality Engineer 📅 2021
- ASQ Certified Supplier Quality Professional 📅 2024

TECHNICAL SKILLS

- **Supplier Quality Methods:** Supplier audits, Supplier certification, Supplier evaluation
- **Inspection Systems:** Incoming inspection, Acceptance criteria, Inspection plans
- **Quality Analysis:** Defect analysis, Failure mode analysis, Quality metrics
- **Corrective Action:** Root cause analysis, Containment, Verification
- **Manufacturing Controls:** Process controls, Control plans, Work instructions
- **Machinery Practices:** CNC machinery, Tooling setup, Process troubleshooting
- **Quality Standards:** Manufacturing specifications, Legal standards, Federal policies
- **Supplier Management:** Supplier performance, Supplier records, Supplier relationships
- **Audit Documentation:** Audit reports, Quality records, Compliance documentation
- **Improvement Methods:** Continuous improvement, Lessons learned, Process enhancement

SKILLS

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|--------------------------|---------------------------|---------------------------|------------------------|
| • Supplier Development | • Incoming Inspection | • Root Cause Analysis | • Machinery Evaluation |
| • Supplier Quality | • Quality Assurance Plans | • Problem Solving | • Corrective Actions |
| • Supplier Certification | • Process Controls | • Continuous Improvement | • Supplier Performance |
| • Manufacturing Audits | • Defect Analysis | • Manufacturing Standards | |

PROFESSIONAL AFFILIATIONS

- ASQ member, engaging with quality engineering practices, supplier quality methods, and professional development.
- Manufacturing quality community participant, sharing practical lessons on audits, corrective action, and process controls.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST