

Sebastian Cruz

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SUMMARY

Manufacturing Engineer with four years supporting aerospace production, complex mechanical and electromechanical assembly, integration, and test operations. Translates **engineering drawings** and **technical data** into practical shop floor processes, controlled documentation, and production readiness plans. Leads **Root Cause Analysis**, Five Whys, Fishbone or Ishikawa Analysis, and 8D investigations, connecting verified causes with corrective actions, tooling changes, drawing clarifications, and **engineering changes**. Coordinates manufacturing, quality, design engineering, test, supply chain, and program stakeholders through build milestones, schedule constraints, risk reviews, and change decisions. Applies Lean and Six Sigma methods to improve workstation sequencing, visual controls, handoffs, and repeatable assembly preparation. Brings organized technical judgment, clear communication, and hands on problem solving to onsite aerospace operations involving high accountability hardware and test activities.

EXPERIENCE

Manufacturing Engineer II, Aerospace Assembly and Test

July 2024 - Present

Asterion Aerospace Technologies

Torrance, CA

Own **manufacturing engineering** support for electromechanical aerospace assemblies across build, integration, inspection, and functional test. Coordinate cross functional planning, risk review, change control, and shop floor execution for concurrent hardware builds.

- Translated drawings and technical data into shop floor plans for electromechanical aerospace **assembly** execution.
- Led 8D investigations using **Five Whys**, linking verified causes with tooling and drawing changes.
- Built integrated plans with quality, **test**, supply chain, design, and manufacturing stakeholders for concurrent builds.
- Reviewed schedule variance, material constraints, and technical risks before milestone decisions affected execution.
- Applied Lean and **Six Sigma** methods to improve workstation sequencing and visual process controls.
- Supported **integration** testing by evaluating interface drawings, build history, and controlled disposition paths.

Manufacturing Engineer, Aerospace Production

June 2022 - June 2024

Redwood Defense Systems

Carson, CA

Supported aerospace and defense production through daily manufacturing engineering coverage for mechanical builds, **electromechanical** interfaces, controlled documentation, and integration activities. Connected shop floor findings with quality, design, planning, and operations decisions.

- Interpreted drawings, bills of material, specifications, and **technical data** for production questions.
- Facilitated Fishbone and **Root Cause Analysis** sessions for process escapes and assembly defects.
- Coordinated **engineering changes** with design and quality teams across documentation, tooling, and materials.
- Maintained planning inputs for build and test activities, dependencies, risks, and stakeholder updates.
- Used **Lean** practices to standardize assembly preparation and improve inspection handoffs.
- Supported **aerospace** and defense hardware production through controlled manufacturing documentation and daily engineering coverage.

Manufacturing Engineering Intern, Assembly Operations

June 2021 - May 2022

Pacific Aerospace Manufacturing

Long Beach, CA

Supported supervised **manufacturing engineering** work for aerospace assembly operations, production documentation, process improvement, and technical issue tracking. Prepared analysis and shop floor information for senior engineers, quality partners, and production leads.

- Reviewed **engineering drawings** with senior engineers before releasing assembly documentation updates.
- Tracked production issues and organized evidence for structured root cause investigations.
- Mapped **assembly** steps to identify handoff delays between production and inspection teams.
- Prepared planning inputs for build readiness reviews and upcoming test milestones.
- Applied classroom Lean concepts during supervised workstation sequencing and **process improvement** activities.
- Documented technical questions, disposition status, and follow up actions for engineering review.

PROJECTS

Integrated Assembly Readiness Planning 📅 2025

Created a cross functional readiness view for complex aerospace assemblies, connecting material status, technical risks, inspection needs, and test milestones so teams could make earlier execution decisions.

Electromechanical Nonconformance Reduction 📅 2024

Structured recurring assembly issue evidence through 8D and Five Whys methods, guiding corrective actions, tooling updates, drawing clarifications, and controlled return of hardware to production.

LEADERSHIP & AWARDS

- Lean Six Sigma Green Belt recognition, 2024
- Manufacturing engineering contribution recognized for aerospace assembly problem solving, 2024
- Cross functional production support recognition for reliable build and test coordination, 2023

EDUCATION

Bachelor's Degree in Mechanical Engineering

California State University, Long Beach GPA: 0

Coursework: Manufacturing processes, mechanical design, materials science, systems engineering

2022
Long Beach, CA

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2024
- Root Cause Analysis Training 📅 2024

TECHNICAL SKILLS

- **Manufacturing Engineering:** Production engineering, Shop floor operations, Manufacturing process planning
- **Assembly and Integration:** Mechanical assemblies, Electromechanical systems, Complex assembly integration
- **Integration and Test:** Functional test, Hardware integration, Test readiness
- **Engineering Documentation:** Engineering drawings, Technical data, Bills of material
- **Root Cause Methods:** Root Cause Analysis, Five Whys, Fishbone Analysis
- **Corrective Action:** 8D, Corrective actions, Verification steps
- **Lean Improvement:** Lean manufacturing, Six Sigma, Process improvement
- **Planning and Scheduling:** Integrated planning, Production scheduling, Milestone planning
- **Change Control:** Engineering changes, Baseline management, Change management
- **Risk and Analysis:** Risk mitigation, Trend analysis, Variance analysis
- **Aerospace Operations:** Aerospace manufacturing, Defense hardware, Production readiness

SKILLS

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|-----------------------------|-----------------------------|----------------------|---------------------|
| • Manufacturing engineering | • Technical data | • Five Whys | • Six Sigma |
| • Assembly integration | • Mechanical assemblies | • Fishbone Analysis | • Change management |
| • Integration and test | • Electromechanical systems | • 8D problem solving | • Risk mitigation |
| • Engineering drawings | • Root Cause Analysis | • Lean manufacturing | |

PROFESSIONAL AFFILIATIONS

- Association for Manufacturing Technology participant
- Society of Manufacturing Engineers professional member

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST