Dean Nelson

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SUMMARY

Mechanical engineering professional with four years supporting aerospace product design, engineering development, and manufacturing focused solutions. Creates and updates **CAD models**, **engineering drawings**, and technical records for component programs, using AutoCAD and three dimensional modeling methods. Prepares documentation for design reviews and manufacturing communication, then applies practical knowledge of **manufacturing processes** when refining designs. Supports product lifecycle work from concept through prototype and production documentation, with close attention to drawing accuracy, quality considerations, and organized records. Works across engineering and manufacturing teams to clarify requirements, resolve design issues, and keep technical information current. This hands on experience supports dependable **mechanical development**, clear collaboration, and steady progress from early design decisions through production readiness.

EXPERIENCE

Junior Mechanical Engineer, Aerospace Design

January 2022 - Present

Pioneer Aerospace Systems

Springfield, MA 01103

Supports aerospace component programs through mechanical **drawing updates**, CAD development, engineering documentation, and manufacturing communication. Works with engineering teams on design reviews, prototype records, production documentation, and practical design adjustments that support accurate, buildable products.

- Created aerospace component drawings in **AutoCAD**, improving clarity for manufacturing communication
- Updated three dimensional **CAD models** for component programs, supporting accurate **design reviews**
- Prepared engineering documentation for manufacturing teams, keeping design decisions easy to trace
- Reviewed manufacturing requirements during design updates, guiding practical mechanical adjustments
- Maintained technical records for engineering teams, improving access during prototype work
- Supported **prototype** and **production documentation**, helping programs move from design into manufacturing

PROJECTS

Aerospace Component Drawing Improvement 2024

Updated component drawings and three dimensional models through CAD coursework and aerospace design work. Focus remained on drawing accuracy, manufacturing communication, and organized documentation for review.

LEADERSHIP & AWARDS

- Recognized by engineering peers for dependable aerospace drawing updates and clear technical records.
- Selected for consistent support of prototype and production documentation activities.

EDUCATION

Bachelor of Science in Mechanical Engineering

2021

Midwest State University GPA: 3.5

United States

Coursework: *CAD design, manufacturing processes, mechanical design, engineering documentation*

CERTIFICATIONS

- CAD and Engineering Design Coursework 2021
- Manufacturing Fundamentals Coursework 2021

TECHNICAL SKILLS

- **CAD Software:** AutoCAD, CAD modeling, engineering drawing updates
- **Three Dimensional Modeling:** 3D CAD models, solid modeling, component modeling
- **Engineering Drawings:** Aerospace drawings, drawing revisions, manufacturing drawings
- **Mechanical Design:** Component design, design methods, mechanical development
- **Manufacturing Processes:** Manufacturing fundamentals, production methods, prototype support
- **Technical Documentation:** Engineering records, design documentation, production documentation
- **Design Review Support:** Design reviews, technical review preparation, drawing review
- **Product Lifecycle:** Concept development, prototype documentation, production documentation
- **Aerospace Engineering:** Aerospace components, aerospace programs, aerospace design
- **Quality Practices:** Drawing accuracy, quality considerations, record organization

SKILLS

- CAD
- AutoCAD
- 3D modeling
- Mechanical design
- Drawing updates
- Engineering documentation
- Manufacturing fundamentals
- Design reviews
- Technical records
- Product development
- Aerospace components
- Design methods
- Problem solving
- Prototype documentation
- Production documentation

PROFESSIONAL AFFILIATIONS

- Mechanical engineering professional community participant, focused on aerospace design and manufacturing practice.
- CAD and engineering design coursework participant, continuing practical development of drawing and modeling skills.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST