



# Natalia Holland

## Mechanical Engineer III

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### SUMMARY

Mechanical Engineer with over 6 years of experience in aerospace and defense, specializing in advanced design and development. Extensive expertise conducting complex analyses and simulations for optimization, leading to enhanced system performance. Collaborated effectively across teams, ensuring successful integration of mechanical systems and components. Passionate about mentoring junior engineers and providing technical guidance. Committed to delivering innovative solutions under tight deadlines and in challenging environments.

### STRENGTHS

- 💡 **Innovative Design Approach**  
Implemented unique problem-solving strategies and methodologies while designing advanced systems, gaining recognition among peers for creativity.
- 👥 **Effective Collaboration**  
Fostered interdepartmental cooperation among technical teams, influencing successful project deliveries and improved timelines.
- 📊 **Analytical Thinking**  
Excelled in performing complex analyses, positively impacting project outcomes through data-driven recommendations.
- 🎓 **Mentorship Capability**  
Nurtured growth in junior engineers, regularly sharing insights and fostering a strong learning environment.
- 👁️ **Attention to Detail**  
Maintained a focus on precise documentation and protocol adherence, which reinforced institutional trust and reliability.

### SKILLS

Mechanical Design   CAD Software

Computer Aided Engineering

Simulation Analysis

Materials Science

Thermodynamics   Fluid Mechanics

Documentation Skills

Problem Solving

### EXPERIENCE

#### Senior Mechanical Engineer

Aerospace Dynamics Group 📅 January 2023 - Present 📍 Cincinnati, OH

Led a team responsible for crafting cutting-edge mechanical systems tailored for aerospace applications. Ensured adherence to demanding industry standards throughout the design and development processes. Enhanced overall system performance via rigorous simulations and efficient testing protocols.

- Spearheaded design initiatives that transformed project scope while elevating safety and compliance metrics.
- Facilitated communication between stakeholders, fostering teamwork and accountability in achieving project milestones.
- Standardized documentation reviews, fostering transparency and clarity within project reports.
- Implemented comprehensive test plans, demonstrating unwavering dedication to quality assurance protocols.
- Cultivated a collaborative culture through mentorship, resulting in upskilling of junior engineering staff.
- Contributed significantly to critical assessments and validations, supporting expanded project capabilities.

#### Mechanical Engineer II

Advanced Engineering Solutions 📅 June 2020 - December 2022 📍 Dayton, OH

Focused on developing high-quality mechanical components designed specifically for defense applications. Worked diligently to lower production costs and enhance operational efficiency by implementing innovative practices and techniques. Actively contributed to team efforts across various projects, reinforcing strong collaborative dynamics.

- Engineered key mechanical designs that drove notable cost reductions while maintaining stringent quality controls.
- Leveraged CAD software to execute intricate simulations, optimizing designs for functional applications.
- Assisted in drafting concise test documentation, streamlining procedural workflows during assessments.
- Developed strong relationships within multidisciplinary teams, enhancing integrative project strategies.
- Provided timely troubleshooting insight for engineering non-conformance issues, reducing time lost in rework.
- Engaged proactively in continuous learning initiatives to stay ahead of industry technological advances.

#### Mechanical Engineer I

Tech Innovations Inc. 📅 August 2016 - May 2020 📍 Columbus, OH

Participated in designing and executing mechanical systems deployed in several high-stakes aerospace projects. Effectively contributed to planning while adhering to both timeline and budget constraints set forth by project leads. Embraced opportunities for growth alongside senior engineers while providing necessary support and feedback.

Team Collaboration Test Planning  
Technical Writing  
Regulatory Compliance Innovation  
Engineering Principles  
Integration Strategies

## LANGUAGES

English Native  
Spanish Intermediate

## MY CAREER



- Senior Mechanical Engineer at Aerospace Dynamics Group (3.4 Years)
- Mechanical Engineer II at Advanced Engineering Solutions (2.5 Years)
- Mechanical Engineer I at Tech Innovations Inc. (3.8 Years)

- Partnered in developing mechanically compliant systems under FAA regulations, ensuring thorough regulatory alignment.
- Designed validation simulations that directly correlated with successful project completions.
- Assisted in producing detailed presentations and technical reports, amplifying stakeholder engagement.
- Collaborated efficiently with mentors to refine existing designs based on accrued insights and feedback.
- Streamlined documentation processes by integrating GD&T principles, thereby raising accuracy levels.
- Supported project milestone achievements by embracing collaboration-driven projects.

## LEADERSHIP & AWARDS

- Recognized as Engineer of the Year for outstanding contributions to the aerospace program at Aerospace Dynamics Group.
- Awarded a Leadership Recognition Certificate for exceptional mentorship impact in shaping new engineers at Advanced Engineering Solutions.

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

University of Ohio 🎓 GPA: 3.5 📅 2016 📍 Columbus, OH

**Coursework:** Fluid Mechanics, Thermodynamics, Design Engineering, Materials Science

## CERTIFICATIONS

- Certified SolidWorks Professional (CSWP) 📅 2021
- Project Management Professional (PMP) 📅 2023

## TECHNICAL SKILLS

- **CAD Software:** AutoCAD, SolidWorks, CATIA
- **Simulation Tools:** ANSYS, MATLAB, Abaqus
- **Testing Methodologies:** Static Testing, Thermal Testing, Vibration Testing
- **Management Techniques:** Agile, Waterfall, PRINCE2
- **Documentation Standards:** GD&T, ASME Y14.5, ISO 9001
- **Collaboration Platforms:** Microsoft Teams, Slack, JIRA
- **Quality Assurance:** ISO 17025, Six Sigma, Lean Manufacturing
- **Presentation Tools:** PowerPoint, Visio, Big Blue Button
- **Communication Tools:** Zoom, Skype, Google Meet
- **Project Management Tools:** Trello, Asana, Microsoft Project

## PROFESSIONAL AFFILIATIONS

- Member of the American Society of Mechanical Engineers (ASME), promoting best practices and innovations in engineering.
- Active participant in local STEM outreach programs inspiring future generations towards careers in engineering.

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST