



Andres Ho

Mechanical Engineer II

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SUMMARY

Mechanical Engineer passionate about developing rugged communication products for critical environments. Over two years of solid experience in design and prototyping, specializing in projects involving speaker microphones, tactical headsets, and electromechanical assemblies. Skilled in PTC CREO for creating 3D models and detailed drawings, while ensuring compliance with product specifications and industry standards. Expertise extends to materials selection, tolerance analysis, and mechanical verification testing. Proven track record collaborating across teams to optimize processes, address engineering challenges, and enhance product functionality. Eager to contribute innovative solutions in a dynamic engineering team.

EXPERIENCE

Mechanical Engineer

DesignTech Innovations 📅 January 2025 - Present 📍 Schaumburg, IL

Responsible for designing ruggedized communication devices, focusing on performance and reliability for mission-critical operations. Collaborates closely with cross-functional teams through each stage of product development. Key role in adapting designs for manufacturability and cost efficiency.

- Developed access modules ensuring compliance with IP and MIL-STD specifications for durability.
- Created comprehensive 3D CAD models and assembly documentation using PTC CREO, expediting production lines.
- Conducted stress modeling and tolerance analysis, leading to enhanced product lifecycle and integrity.
- Collaborated with manufacturing and quality teams to streamline workflows and minimize scrap rates.
- Supported comprehensive mechanical verification testing, providing crucial feedback for iterative design improvements.
- Involved in MRB activities to troubleshoot and resolve potential design flaws during production.

Junior Mechanical Engineer

Innovative Engineering Group 📅 June 2024 - December 2024 📍 Evanston, IL

Contributed to the development of mechanical components among diverse projects within the communications sector. Worked under the mentorship of senior engineers, gaining exposure to critical engineering processes and documentation requirements.

- Assisted with mechanical designs for communication equipment, including overmolding and PCB integration efforts.
- Executed mechanical testing protocols and analyzed results for optimized design adjustments.
- Prepared engineering documentation including BOMs and specifications for tooling, facilitating smoother handoffs.
- Collaborated with vendors to ensure adherence to design criteria throughout the manufacturing process.
- Played an active role in identifying and resolving production issues, bolstering overall product quality.
- Participated in design review discussions, sharing insights that contributed to continuous improvement initiatives.

LEADERSHIP & AWARDS

- Builder's Award for Innovative Design, Innovative Engineering Group, 2024
- Safety Excellence Award, DesignTech Innovations, 2026

STRENGTHS

👥 Collaboration

Fostered strong partnerships among engineers and suppliers, enhancing product delivery timelines and quality.

💡 Problem-Solving

Utilized analytical skills in engineering analysis, resolving complex technical issues beyond initial scope.

🔄 Adaptability

Quickly adjusted project objectives based on evolving client needs or material availability, ensuring continuity.

👁️ Attention to Detail

Focused on precision during prototyping, resulting in improved designs that met regulatory compliance effortlessly.

🔧 Technical Proficiency

Exhibited advanced skills using PTC CREO and other design tools, increasing productivity by accelerating turnaround times.

SKILLS

PTC CREO DFM/DFA

Mechanical Design

Tolerance Analysis

Prototyping and Testing

Materials Selection

Stress Modeling

Cross-Functional Collaboration

Verification Testing

Engineering Documentation

CAD Models

Electromechanical Assemblies

Production Readiness

Rapid Prototyping

Design Review Processes

Project Coordination

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Mechanical Engineer at DesignTech Innovations (1.4 Years)

● Junior Mechanical Engineer at Innovative Engineering Group (6 Months)

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Illinois at Chicago 🎓 GPA: 3.7 📅 2024 📍 Chicago, IL

Coursework: Thermodynamics, Fluid Mechanics, Material Science, Design Engineering

CERTIFICATIONS

- Certified SolidWorks Associate (CSWA) 📅 2023
- PTC CREO Certified Professional 📅 2024

TECHNICAL SKILLS

- **CAD Software:** PTC CREO, SolidWorks, AutoCAD
- **Engineering Analytics:** ANSYS, MATLAB, Altair HyperWorks
- **Product Development:** DFM/DFA, Tolerance Stack-Up, Stress Testing
- **Prototyping Tools:** 3D Printers, CNC Machines, Rapid Prototyping Software
- **Material Science:** Plastics, Elastomers, Metals
- **Process Improvement:** Lean Manufacturing, Six Sigma, Kaizen
- **Testing Equipment:** Universal Testing Machines, Altimeters, Thermal Imaging Cameras
- **Documentation Standards:** ISO 9001, AS9100, RoHS Compliance
- **Team Collaboration Tools:** JIRA, Confluence, Microsoft Teams
- **Communication Platforms:** Slack, Zoom, Microsoft Outlook

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers (ASME)
- Society of Hispanic Professional Engineers (SHPE)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST