

Andres Ho

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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 January 2025 - Present
DesignTech Innovations 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 June 2024 - December 2024
Innovative Engineering Group 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

EDUCATION

Bachelor's Degree in Mechanical Engineering 2024
University of Illinois at Chicago GPA: 3.7 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

SKILLS

- PTC CREO
- Prototyping and Testing
- Verification Testing
- Production Readiness
- DFM/DFA
- Materials Selection
- Engineering Documentation
- Rapid Prototyping
- Mechanical Design
- Stress Modeling
- CAD Models
- Design Review Processes
- Tolerance Analysis
- Cross-Functional Collaboration
- Electromechanical Assemblies
- Project Coordination

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST