



Mechanical Engineer

United States

About Resonado

We develop proprietary speaker driver technologies powering the next generation of audio products.

Resonado Labs is an American audio technology company founded in 2017. Resonado revolutionized the audio industry with the introduction of Res-Core™, a proprietary motor that enabled high-performance racetrack drivers, a new category of electrodynamic loudspeakers tailored for modern audio products.

Today, Resonado develops designer drivers for brands and manufacturers engineered with Res-Core motors and high-tech tactical communication systems for the United States Air Force and Special Operations Command. Resonado's team is dedicated to drastically enhancing the delight factor of audio products for listeners worldwide - driven by radical, high performance engineering at the core.

Job Description

Resonado's Chicago headquarters is looking for a motivated and creative candidate with a passion for loudspeakers to join the company's U.S. Frontier Engineering team. Candidates should be ready to take on new challenges by assuming a highly visible role in a small, yet ambitious organization and expect extensive collaboration across departments. Our company maintains a horizontal organizational culture with a strong emphasis on meritocracy. With transparent communication and open channels welcoming new ideas, Resonado is an ideal environment for an experienced engineer looking to become an early member of a rapidly expanding company poised to bring a new wave of innovation to the audio industry.

Responsibilities

- Driving research and development of high potential loudspeaker technologies as a Mechanical Engineer on a creative and agile team
- Working with the acoustic design and testing teams to design loudspeakers, transducers, and related system components using CAD software to create 3D models and drawings
- Developing assembly processes for prototype runs and high-volume manufacturing
- Building prototype loudspeakers and completing reliability and quality testing, as well as other mechanical engineering related testing
- Establishing organization-wide mechanical engineering systems, from overarching PDM system to drawing templates to knowledge base
- Working with sub-component vendors and supply chain partners to source and manufacture various components
- Collaborating with Resonado Labs' manufacturers, partners, and customers on loudspeaker mechanical design, end-product integration, production, etc.
- Solving difficult mechanical problems and challenges utilizing a variety of methods, from simulation to quick experimentation
- Becoming a leading expert on the mechanical components of Resonado Labs' proprietary acoustic technologies and contributing to the expansion of the company's intellectual property portfolio
- Completing traditional mechanical engineering analysis and documentation including tolerance analysis, DFMEA, and process guides

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Qualifications

Required

- Passion for hardware and electronics systems and improving how people experience sound
- 5+ years of professional mechanical design, development, and manufacturing experience
- Mastery of a 3D CAD software, such as Onshape, NX, or SolidWorks, and a PDM system
- Expert in traditional mechanical engineering analysis and documentation, from GD&T to DFMEA to drawings
- 7+ years of experience (not limited to professional experience) working with hands and workshop equipment like 3D printers and CNC routers
- Experience working with high-volume contract manufacturers and sub-component vendors
- Ability to commute to Resonado's Chicago office in River West on a daily basis

Preferred

- Passion for acoustics and improving how people experience sound
- Experience with electrodynamic transducers of all sizes, from micro-speakers to subwoofers
- Experience working with suppliers in Asia
- Working knowledge of programs like MATLAB, Python, LabVIEW, or similar for basic automation and analysis
- Experience working with materials like steel, neodymium, ferrite, polymers, elastomers, soft adhesives, and brittle materials
- Strong communication and presentation skills including project planning, documentation of technical requirements, and technical presentations
- Experienced in conceiving, writing, and publishing patents
- Self-driven engineer
- Members of our engineering team have degrees in Acoustics or a similar field (mechanical or electrical engineering, physics, etc.), but if you have taken a different route to gain the required experience, that is acceptable

Resonado Labs evaluates qualified applicants without regard to race, color, religion, sex, sexual orientation, gender identity, genetic information, national origin, age, disability, veteran status, or any other legally protected characteristics. All inquiries should be directed to hello@resonado.com.