Houston Rongey

RF Design Engineer

Profile

Dedicated RF Design Engineer with 1-year experience in designing and optimizing radio frequency systems. Proficient in using RF tools, simulation software, and test equipment to ensure optimal system performance. Demonstrated ability to collaborate with cross-functional teams to deliver innovative solutions. Adept at analyzing and resolving technical issues, with a strong focus on quality and efficiency. Highly skilled in conducting research and staying current with industry trends to ensure cutting-edge designs.

Employment History

RF Design Engineer at SkyWater Technology, MN

Feb 2023 - Present

- Developed a high-performance RF system for a major client, resulting in a 20% improvement in signal quality and a 15% reduction in power consumption, leading to increased customer satisfaction and repeat business for SkyWater Technology.
- Successfully designed and implemented an advanced RF filter with a 30% smaller footprint and 10% lower insertion loss, enabling SkyWater Technology to secure a $5 million contract with a leading communications company.
- Led a cross-functional team in the optimization of an RF front-end module, achieving a 25% increase in overall system efficiency and reducing component costs by 18%, contributing significantly to SkyWater Technology's revenue growth in the RF design market.

Associate RF Design Engineer at Qorvo Inc., MN

Sep 2022 - Dec 2022

- Designed and implemented a high-performance RF filter with a 20% improvement in signal quality, resulting in a 15% increase in customer satisfaction and a 10% increase in sales for Qorvo Inc., MN.
- Optimized RF circuit layouts, reducing design cycle time by 25% and enabling the team to meet tight deadlines for multiple projects.
- Successfully led a cross-functional team to develop a new RF amplifier, achieving a 30% reduction in power consumption and a 35% decrease in size, which contributed to a 12% market share growth for Qorvo Inc., MN.
- Developed and executed testing procedures for RF components, ensuring 99% compliance with industry standards and a 40% reduction in product return rate due to improved quality assurance.

Education

Bachelor of Science in Electrical Engineering at University of Minnesota, Twin Cities, MN

Aug 2018 - May 2022

Relevant Coursework: Circuit Analysis, Digital Logic Design, Signal Processing, Electronics, Electromagnetics, Control Systems, Power

Details

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Links

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Skills

- Circuit Simulation
- Antenna Design
- Electromagnetic Theory
- Network Analysis
- Microwave Engineering
- Signal Processing
- Radio Frequency Optimization

Languages

- English
- Russian

Hobbies

- Amateur radio operation
- Circuit board design and prototyping
- Drone building and flying