Bellevue, WA- United States

RF Engineer

NEXT Biometrics manufactures fingerprint sensor modules based on the patented *NEXT Active Thermal*™ principle. Its sensors are used in a wide scale of solutions and by many manufacturers, including 1st tier manufacturers like Dell and Fujitsu.

NEXT Biometrics is looking for an experienced RF Engineer to join our team. The ideal candidate will have a strong technology background in technical product development with specialties in highly form-factor constrained antenna and component-level RF design for SmartCard, RFID, NFC, wireless power, wearables or related industries.
As a member of the NEXT Biometrics Hardware Engineering team, you will take an active role in development and commercialization of electronic devices based on proprietary technologies. You will engage with an experienced cross-disciplinary team to conceive and design innovative consumer products, and contribute in driving key aspects of product definition, execution, validation and optimization for high-volume production. You must be responsive, flexible and able to succeed within an open collaborative environment.

Responsibilities

- Design, implement, validate and optimize RF implementation from concept, through development, compliance testing, production ramp to sustaining.
- Drive antenna and component-level RF circuit design, simulation, schematic capture, PCB layout implementation, prototyping, validation test and optimization.
- Define verification matrix and internal specifications of RF performance.
- Develop and build prototypes, engineering boards and production test boards.
- Collaborate with Firmware, Software, Electrical Baseband, Mechanical and Quality engineers in design, verification, troubleshooting, failure analysis and optimization to resolve issues and improve RF performance.
- Author test plans for both in-house verification and manufacturing testing. Carry out test execution and generate status and test reports.
- Work within a project team and take responsibility for the RF implementation. Scope out RF task efforts and communicate development status and issues to the broader technical and program team.
- Meet with vendors and technology suppliers to select components
- Support the manufacturing and manufacturing test development

Qualifications

- Bachelor's Degree in Electronic Engineering. Master's Degree preferred.
- 3+ years of applicable hands-on industry experience in embedded RF design and test of contactless SmartCard or related products.
- Relevant working experience in antenna and component-level RF design for highly form-factor constrained embedded consumer products.
- Strong background in RF concepts such as impedance matching.
- Knowledge of NFC technology and relevant compliances/performance requirements and industry standards such as ISO 10373/14443 and EMVCo.
- Experienced with component-level RF circuit design, analysis, prototyping, tuning, troubleshooting, characterization, and optimization.
- Experienced with antenna design, simulation/modeling and tuning at bench level.
- Knowledge of antenna prototyping tools and techniques.

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www.nextbiometrics.com

- Knowledge of best design practices for EMI/EMC, ESD, and RF signal routing as well as noise/interference mitigation and troubleshooting methods
- Proficient with electrical design, schematic capture, layout, simulation and verification tools. Experience with PCB design tools (preferably Altium)
- Strong analytical skill with methodical/scientific test and measurement approach
- Hands-on experience with general lab equipment such as oscilloscope, power amplifier, spectrum analyzer, network analyzer, signal generator as well as commercial RF equipment such as NFC communication tester
- Experience in successful market deployment of consumer electronic devices.
- It is preferred that the candidate has had participation through all stages of product development, from concept to production, for more than one product.
- Excellent English communication and documentation skills are required; as well as the ability to work in multidisciplinary projects involving engineers with several technical areas of expertise.
- Experience with ISO 14443 compliance and EMVCo certification desirable.
- DFM and high-volume manufacturing support experience desirable.
- Experience with wireless charging or NFC power management desirable.
- Test automation and scripting capabilities desirable.
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Apply at:

NEXT Biometrics RF Engineer

NEXT Biometrics *is committed to the principle of equal employment opportunity for all employees and to providing employees with a work environment free of discrimination and harassment. All employment decisions at NEXT are based on business needs, job requirements and individual qualifications, without regard to race, color, religion or belief, national, social or ethnic origin, sex (including pregnancy), age, physical, mental or sensory disability, HIV status, sexual orientation, gender identity and/or expression, marital, civil union or domestic partnership status, past or present military service, family medical history or genetic information, family or parental status, or any other status protected by the laws or regulations in the locations where we operate. NEXT will not tolerate discrimination or harassment based on any of these characteristics. NEXT encourages applicants of all ages.*

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