



Nextivity, Inc.  
16550 W Bernardo Drive, Suite 550, San Diego, California 92127  
Telephone: 858.485.9442

## Job Description

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**Title:** Sr. Staff / Principal RF Engineer

**Department:** Research and Development

**Manager:** Director, HW Engineering

**Supervision of Others:** None

**Location:** San Diego

**FLSA Status:** Exempt

**Job Type:** Full Time

### Summary

As a key member of our hardware development team, this role will design, validate and document board level RF systems used to improve cellular network coverage in residential and enterprise environments.

### Responsibilities

- RF line-up component selection and FDD/TDD transceiver design from antenna to baseband.
- Non-isolated power circuit design, implementation of digital and interfaces.
- Design for EMC, design for ESD/Surge protection, design for signal integrity, design for reliability/thermal performance, design to cost target.
- Circuit schematic capture.
- PCB component placement and routing accountability (direction to CAD engineers).
- Bill of Materials (BOM) configuration management and ECO implementation, design manufacturing documentation.
- Performing Design Verification Testing (DVT) on hardware platforms that you designed.
- Design verification results documentation and presentation.
- Yield, repair, and design for manufacturability production accountability.
- Other duties as required.

### Skills and Abilities

- Good RF hardware design skillset: An ability to perform lumped element s-parameter RF matching, an understanding of RF chain performance (cascaded noise figure, gain, and linearity expressions etc.), exposure to radio transmission and reception standards preferably 3GPP LTE UE, Base Station, or Repeater standards, FCC emissions compliance requirements, etc. Electromagnetic compatibility background a plus.
- Demonstrated ability to manage a variety of tasks and meet multiple demands in a dynamic, team-oriented environment.
- Initiative, customer focus, outstanding technical knowledge.
- Detail-oriented, organized, and accurate with good verbal and written communication skills.



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- Ability to Work in a Fast-Paced Environment
- Ability to use sound judgment when representing the Company, operate as part of a team and collaborate with others while taking initiative.
- Foster a professional attitude and demonstrate integrity and flexibility
- Entrepreneurial, rapid learner, inquisitive, and persistent
- Excellent organizational skills and attention to detail
- Analytical reasoning and problem solving.
- Ability to work independently and as part of a design team
- Demonstrated skills in working independently and as part of a design team
- Knowledge of Quality Control principles and methodology is an asset.

### Education / Training

- Master's degree in Electrical Engineering
- Alternately, a master's degree in Electrical Engineering with coursework emphasis on RF engineering is acceptable.
- National Instrument's Labview Certifications or coursework in Labview programming a plus.

### Work Experience

- 7-10 + years of experience in cellular RF design and/or WiFi RF design and/or RF Repeater design
- Experience preparing documentation (BOM, design simulations, functional specifications, layout design guidelines) and communicating technical information.
- Experience with lab equipment including oscilloscopes, vector/spectrum analyzers, oscilloscopes, and RF network analyzers.

### Physical Demands and Work Environment

The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- **Physical demands:** While performing the duties of this job, the employee is regularly required to stand, walk, sit; use hands to type on keyboard; reach with hands and arms; talk and hear. Must have the ability to sit in front of a computer up to 8 hours per day, lift and carry boxes under 40 lbs.
- **Work environment:** The noise level in the work environment is usually minimal and usually that of an office environment and/or R&D lab.