



Nextivity, Inc.
16550 W Bernardo Drive, Building 5, Suite 550, San Diego, California 92127
Telephone: 858.485.9442

Job Description

Title: Embedded SW Engineer with Systems Background

Department: R&D

Manager: Dir. SW Engineering

Location: San Diego

FLSA Status: Exempt

Job Type: Full Time

Compensation: DOE

Summary

Embedded SW Engineers are responsible for implementing embedded software that forms part of Nextivity's product line.

Responsibilities

Embedded SW engineers design and develop real-time embedded software for Nextivity's products. To that end, Embedded SW Engineers must:

- Design and document software systems.
- Implement embedded real-time software modules and systems according to an agreed software architecture.
- Implement module and system level testing for all software developed.
- Coordinate with test teams to ensure that all software is tested and all open issues are addressed.

Work Experience

- Must have at least 10 years' experience in real-time embedded software development on platforms using Real-time Operating Systems.
- Must have at least 2 years' experience in the wireless industry.

Education / Training

- Bachelor's degree in Electrical Engineering or Computer Science is required.

Skills and Abilities

- Expert in C/C++
- Familiar with Software Development tools and processes
- Thorough understanding of the hazards and techniques relating to concurrent embedded systems using multiple threads or multiple CPUs.



Nextivity, Inc.

16550 W Bernardo Drive, Building 5, Suite 550, San Diego, California 92127

Telephone: 858.485.9442

- Hands-on experience with modern cellular technologies such as CDMA/UMTS, OFDM/LTE and 5G NR, preferably in the lower layers (PHY, L1/2).
- Knowledge of Digital Signal Processing techniques such as filtering, tracking, channel estimation, complex numbers, QAM modulation as well as fixed-point implementations.
- Understanding of information theory, source and channel coding, MIMO, beamforming etc. is highly desirable.
- Proficient in Microsoft Office tools
- Must be proactive, taking initiative and working in a collaborative team environment
- Technical skills in real-time embedded software development. Technical proficiency in embedded programming C and C++.
- Broad general knowledge of embedded devices and standards such as flash memories, SPI, I2C, UART, USB, Ethernet.
- Must have strong critical thinking skills
- Excellent verbal and written communication skills
- Ability to use sound judgment when representing the Company
- Foster a professional attitude and demonstrate integrity and flexibility
- Entrepreneurial, rapid learner, inquisitive, and persistent
- Process Owner / process driven
- Detailed and disciplined
- Proactive Personality (“Can Do Attitude”)

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 30 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.