

Senior Embedded Software Engineer

About Us

At Eagle Electronics, we are a bold and ambitious start-up focused on disrupting the cellular module production environment in the United States. With a small but dedicated team, we are pioneering innovative solutions to redefine the industry. Our vision is to build a smarter, more sustainable, and future-ready cellular hardware ecosystem here in the United States, and we're looking for passionate individuals to join us on this journey.

Job Description

As a Senior Embedded Software Engineer at Eagle Electronics, you will play a leadership role in the design and development of embedded software systems that power our cellular connectivity solutions. You will architect robust, scalable, and secure firmware for wireless modules, lead technical decisions, and mentor junior team members. This is a unique opportunity for someone with ****6+ years of experience**** in embedded systems to shape the foundation of a growing technology platform and contribute to mission-critical innovations in connectivity and manufacturing automation.

Key Responsibilities

- Lead the development of embedded software architectures for wireless modules and IoT systems.
- Design and optimize software for performance, power efficiency, and reliability in production environments.
- Guide board bring-up, peripheral interface integration, and protocol stack development.
- Support cellular network certification and compliance (PTCRB, FCC, carrier-specific).
- Work cross-functionally with hardware, software, and operations teams to define and deliver product features.
- Mentor junior engineers and help define software development best practices, tooling, and documentation.

Required Qualifications

- Bachelor's or Master's degree in Electrical Engineering, Computer Engineering, or related field.
- 6+ years of experience in embedded systems development, including bare-metal and RTOS environments.
- Proficiency in C/C++ and experience with low-level hardware bring-up and debugging.
- Deep understanding of embedded systems design, memory architectures, and power management.
- Experience with cellular modules (e.g., Quectel, Telit, u-blox), including AT command sets and network troubleshooting.
- Familiarity with secure boot, firmware over-the-air (FOTA) updates, and secure code practices.

Preferred Qualifications

- Experience with 4G/5G connectivity, eSIM/eUICC integration, or GNSS functionality.
- Hands-on experience with Linux kernel or device tree customization in embedded contexts.
- Strong understanding of industry certification processes, including RF and carrier approvals.
- Experience building test harnesses and automating firmware validation.
- Strong communication skills and the ability to work independently and lead small teams.

What We Offer

- A high-impact leadership role in a company shaping the future of cellular module technology in the U.S.
- Competitive compensation, equity participation, and a pathway to grow with the company.
- A supportive and innovation-driven team culture.
- Opportunities to influence product direction and engineering culture from the ground up.