**Lead Embedded Systems Engineer (C/C++ & Go)**  
**Location:** Dallas, TX (Hybrid in U.S. time zones; occasional travel)  
**Employment Type:** Full-Time  
**Recruiter:** Symbiotic Services

**About the Role**  
Symbiotic Services is seeking a Lead Embedded Systems Engineer to help develop a cutting-edge intelligent bed platform. This role centers on owning and advancing an embedded Linux control unit that interfaces with hundreds of actuators, communicates via MQTT over Wi-Fi, and supports AI/ML sleep analytics. The position is ideal for a seasoned developer ready to lead architecture design and transition legacy Bluetooth systems to modern, scalable Go-powered edge/cloud infrastructure.

**Key Responsibilities**

* **System Architecture Ownership**: Design and implement real-time, scalable MCU applications on Debian or Yocto.
* **Core Application Development**: Create and maintain state machines and inter-device messaging in C/C++ and Go.
* **IoT System Transition**: Replace Bluetooth/BlueZ with a robust Wi-Fi + MQTT architecture.
* **Dev Environment Modernization**: Build containerized toolchains, CI-ready simulators, and automated hardware tests.
* **Engineering Standards Leadership**: Manage CI/CD workflows, coding standards, and version control practices.
* **Edge-to-Cloud Integration**: Collaborate with data science teams to design scalable, secure pipelines for sleep data.

**Minimum Qualifications**

* Bachelor's in Computer Science, Computer Engineering, or equivalent experience
* 5+ years in embedded firmware development (C/C++, Go preferred)
* Strong background with embedded Linux (Debian, Yocto)
* Networking proficiency (TCP/IP, UDP, MQTT)
* Expertise in multi-threaded/multi-process system design
* Experience with Git and CI/CD pipelines
* Demonstrated initiative via personal or open-source projects

**Preferred Qualifications**

* Experience with Docker-based dev environments
* Scripting skills (Python or Bash) for automation
* Familiarity with AWS IoT, Azure IoT Hub, or GCP IoT Core
* Legacy support with Bluetooth LE / BlueZ
* Lab equipment experience: oscilloscopes, logic analyzers, JTAG/SWD

**Why Work With Us**

* **Innovation Time**: Dedicate 10% of your week to R&D or open-source projects
* **Learning Budget**: Attend conferences like GopherCon or Embedded World
* **Career Growth**: Pathways from lead engineer to architect and mentor
* **Collaborative Offsites**: Quarterly hands-on sessions with cross-functional teams
* **Meaningful Impact**: Help enhance sleep quality for thousands of users

**Apply Today!**  
Interested candidates should share a GitHub profile or links to recent projects. Let's build the future of smart sleep technology—together.