Hardware Engineer – Malvern, PA. On-Site.

Rajant Health Incorporated is looking for a **Hardware Engineer.** Rajant Health Incorporated (RHI) is building a healthcare assurance ecosystem to enable proactive and personalized health. We provide personalized health insights to promote a patient-centered experience that improves diagnostics, therapeutics, and communication.

Revolutionizing health discovery on a global scale is RHI's mission. RHI is backed by our parent company, Rajant Corporation (Malvern, PA), with 20+ years of technological experience. For more info, visit RajantHealth.com or follow Rajant Health on LinkedIn and YouTube.   Join our team to become a part of this exciting step forward in healthcare!

Position Overview: We are seeking a **Hardware Engineer** to design, develop, and support connected devices ranging from battery-powered wearables to industrial IoT gateways. You will work on end-to-end hardware development, balancing power efficiency, reliability, performance, and cost, while collaborating closely with firmware, cloud, and mechanical teams to deliver production-ready IoT products.

Key Responsibilities

- Design and develop IoT hardware for **battery-powered wearables and industrial gateways.**
- Architect MCU- and SoC-based systems integrating **sensors, wireless connectivity, and peripherals.**
- Create schematics and PCB layouts for **compact, low-power wearable devices** and **robust industrial platforms.**
- Prototype, bring up, test, and debug hardware at board and system level.
- Design and optimize **power management systems** (battery selection, charging, protection, regulators, sleep states).
- Integrate and support wireless technologies such as **BLE, Wi-Fi, LTE-M, NB-IoT, and LoRa.**
- Consider **RF, antenna placement, and signal integrity** in both wearable and industrial form factors.
- Support **DFM, DFT, reliability, and regulatory certification** (FCC, CE, PTCRB, UL as applicable).
- Collaborate cross-functionally with firmware, cloud, mechanical, and manufacturing teams.
- Support pilot builds, production ramp, and ongoing manufacturing issues.
- Investigate and resolve field failures and reliability issues.
- Document hardware designs, validation plans, and test results.

Required Qualifications

- Bachelor's degree in Electrical Engineering, Computer Engineering, or related field.
- 3–6 years of professional hardware engineering experience.
- Strong foundation in **analog, digital, and mixed-signal design.**
- Hands-on experience with **IoT devices, wearables, or industrial embedded systems.**
- Experience designing **battery-powered products** and/or **always-on industrial systems.**
- Proficiency with PCB schematic capture and layout tools.
- Strong lab skills (oscilloscope, logic analyzer, spectrum analyzer, multimeter).
- Ability to debug power, RF, and system-level issues.

Preferred Qualifications (Nice to Have)

- Experience with **ultra-low-power wearable designs** (sleep modes, power profiling).
- Experience with **industrial gateways** (multiple radios, Ethernet, RS-485, CAN, USB).
- Familiarity with **thermal, EMI/EMC, and ruggedized enclosure constraints.**
- Understanding of **secure hardware design** (secure boot, TPM/SE, key storage).
- Experience supporting products through **certification and mass production.**
- Exposure to medical, industrial, or regulated environments.

Soft Skills

- Strong ownership and accountability for hardware designs
- Comfortable working across disciplines and product lifecycles
- Clear communicator with strong documentation habits
- Ability to make pragmatic tradeoffs between power, cost, and performance

Employment Type: Regular, Full-Time. Salaried with full benefits.

Location: Malvern, PA. On-Site.

Apply: Please send cover letter and resume to jointheteam@rajant.com.