Company: Lungpacer Medical USA Inc.

Address: 260 Sierra Drive, Suite 116
                 Exton, PA 19341

Position: **Senior Software Engineer**

Lungpacer Medical USA Inc., a subsidiary of Lungpacer Medical Inc. - a British Columbia Corporation, is developing a novel therapeutic solution for preserving the integrity and strength of the diaphragm muscle in critically ill patients who require mechanical ventilation, is seeking to hire experienced and highly motivated Senior Software Engineer.

As a member of the Software Team, this senior position is responsible for providing design and technical expertise in area of assigned development activities.

Responsibilities

- Generate design concepts & prototypes, test their performance in simulated and real-world conditions.
- Use analysis tools and methods to solve complex technical problems.
- Participate in the definition and analysis of software requirements and risk analysis activities.
- Demonstrate working knowledge of product enhancements and algorithm refinement.
- Prepare and/or review design change requests including Verification & Validation activities supporting design changes.
- Participate in pre-clinical testing, data collection and analysis of prototype hardware.
- Participate in maintenance of IEC 62304 processes.
- Support Manufacturing as required.
- Support activities to enhance IP portfolio of the company.
- Adhere to Lungpacer's QMS including design control policies to ensure product quality.
- Perform technical writing and develop/deliver presentations as required.

Qualifications & Required Skills

- Bachelor's in Software Engineering or related field.
- 8+ years of direct experience developing embedded software. Experience in medical device development is preferred.
- Proficiency in C and C++.
- Experience with object-oriented analysis and design techniques.
- Experience with embedded real-time operating systems, such as SafeRTOS.
- Experience in FPGA VHDL logic design and implementation is preferred.
- Familiarization with IEC60601, IEC62304, and ISO14971 is preferred.
- Excellent organizational, analytical reasoning, problem-solving, and conflict management skills.

- Experience with Agile Software Development processes is preferred. Familiarization with Jira is a plus.
- Must be able to weigh, document, articulate the strategic and tactical alternatives that deliver complete, reliable, and safe systems that meet customer needs.
- Excellent interpersonal and communication (both oral and written) skills.
- Ability to handle confidential and sensitive material with discretion.

The primary location of work will be at our facility in Exton, PA. The position may require some travel.

Qualified candidates may send a letter of interest and resumé to hr@lungpacer.com. Please quote **Senior Software Engineer** in your e-mail subject box.

We thank all interested applicants. However, only those under consideration will be contacted. No Phone Calls, please.