



Principal Software Engineer

Third Pole, Inc. is a growing cardiopulmonary therapeutics company that is developing a unique technology to make inhaled nitric oxide (NO) from air. Inhaled NO is an effective tool, but tanks of NO are not widely accessible for treating heart and lung diseases worldwide. Our tank-less product will offer a disruptive solution which will allow us easy entry to both US and Global markets. Our product will be so simple to use that babies who currently lack access to this medicine will soon be treated; saving lives in China, India, Kenya and worldwide.

Responsibilities:

- Research, design, develop and release/maintain micro-processor/micro-controller firmware for complex medical devices.
- Lead and/or participate in the design of the embedded code for new and existing systems.
- Provide firmware support for new electro-mechanical prototypes as part of ongoing new product development efforts.
- Define, design and implement product features and systems capabilities.
- Provide technical guidance to other programmers and engineers.
- Develop test cases and test procedures, participate in testing and analysis at the system/sub-system level.
- Perform research, concept development and proof of concept prototype for new instruments and instrument improvement projects.
- Reports to VP of Product Development.

Requirements:

- BS in Computer Science engineering, Electrical Engineering or equivalent technical degree.
- 5 or more years of relevant professional experience.
- Embedded firmware experience utilizing modern RTOS tools and Jtag debugging environments.
Experience with low-level embedded processing, hardware interfaces, and algorithm development.
- Experience with Renesas Synergy ARM Cortex A9 running ThreadX preferred.
- Strong C/C++ programming experience in a team environment.
- Familiar with RS232, CAN / USB and TCP/IP as communication protocols.
- Goal-oriented, self-motivated and able to be productive with very little supervision.
- Able to be successful in a schedule-driven, fast paced, dynamic environment.
- Must have good communication skills.

- Must have demonstrated experience developing software using disciplined methodologies.
- Able to accurately estimate and plan work.
- Experience in the medical instrumentation field desirable.
- Strong engineering aptitude for electronic/electrical and computer systems.

Apply now for immediate and confidential consideration!