



Open Position

Senior/Principal Software Engineer – Networking

Waltham, Massachusetts

About IntervalZero

Excellent people, innovative technology, and a Customer-first philosophy are all competitive differentiators in today's knowledge-based global economy. IntervalZero is focused on all three – building an outstanding Team, exceeding Customer expectations, and continuing to develop the world's leading Real-Time Operating System (RTOS) Platform that is changing the landscape in markets ranging from Industrial Automation and Test/Simulation to Pro Audio and Medical systems.

By extending Windows into a Real-Time Operating System (RTOS), RTX64 enables applications that require deterministic and high-speed response times, along with other non-real-time application components, to work together on a common Windows system. RTX64 is a single, low-cost all-software platform that satisfies a full range of real-time and embedded application requirements. The RTX64 platform reduces costs, boosts quality and performance, and significantly reduces reliance on proprietary hardware such as DSPs and FPGAs.

Headquartered along the Boston technology corridor, with additional offices in Europe, India and Taiwan, IntervalZero is relentlessly focused on its customers and we share their pursuit of excellence. The company believes that continuous investment in both our real-time software technology and in strengthening customer relationships is essential for long-term success. That same level of investment and commitment extends to the IntervalZero Team, the company's most important asset.

For more information, visit www.intervalzero.com.

Position summary

As IntervalZero expands into new markets, we are looking for strong technical developers to lead the charge. As such, the successful candidate for this position needs to be innovative and self-motivated when given new challenges. They will be responsible for designing, developing, maintaining, and enhancing C/C++ code for our Real-time extension for 64-bit Windows (RTX64), with initial focus on new product features.

Requirements

- Experience taking a project from concept to completion; including design, prototyping, testing and troubleshooting.
- Ability to translate standards to SW design requirements.
- Ability to develop low-level software requirements from high-level system requirements.
- Strong inter-personal and communications skills.
- Ability to work in a small team environment or independently.
- Ability to mentor junior software engineers.
- Needs to be driving distance to our Waltham, MA office.

Technical requirements:

- Extensive experience developing device drivers (especially for NICs).
- Detailed knowledge of how to tune, debug, modify driver settings (PHY, etc.).
- Strong working knowledge of networking technologies and protocols – VLANs, routing, TCPIP.
- Working knowledge of network precision time services such as IEEE1588/802.1AS.
- Working knowledge of traffic shaping (IEEE 802.1Qat).
- Experience implementing networking standards in software.
- Experience developing complete network stack.
- Strong working knowledge of x86/x64 architecture.
- Strong knowledge of C/C++.
- Strong skills in measuring, analyzing, and optimizing for scalability and performance.
- Experience developing and debugging multi-process / multi-threaded software.

Pluses

- Experience with kernel-level debugging.
- Experience working on embedded RTOS.
- Knowledge of the Windows kernel.
- Experience developing User Interfaces for development tools.
- NDIS knowledge and mini-port development.
- SMP architecture and development experience.
- Parallel programming experience.

Qualifications

- BS Computer Science or Electrical Engineering; MS preferred.
- Minimum 8 years in software/firmware development for networking components.

If interested, please contact:

careers@intervalzero.com