



New Hire Requisition

Position Information

Job Title: Senior/Principal Software Engineer – NIC Drivers Date: 5/17/2021

Replacement New Position Full Time Temporary

Proposed Starting Salary: _____ Target Start Date: 6/1/17

Supervisor: Bryan Levey Department: Engineering – Product Development

Description of Duties:

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 mission critical challenges. They will be responsible for designing, developing, maintaining, and enhancing C/C++ code for our Real-time extension for Windows (RTX64), with initial focus on network aspects of new product features. In particular, this engineer needs to have extensive experience with developing and tuning Network Interface Card Drivers.

General:

- 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

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, TCP/IP, EtherCAT
- Working knowledge of network precision time services such as IEEE 1588/802.1AS
- 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 and Educational Requirements:

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