Software Engineer – Motion Control

Working with a team of passionate, talented experts, the selected candidate will be responsible for designing and implementing EtherCAT motion control and I/O systems; as well as developing and maintaining software control systems for the entire OMAX product line. This is a fast pace environment requiring someone eager to contribute innovative solutions that will directly impact the history of waterjet technology.

Duties:

• Design hardware and code to run motion control systems for the all OMAX products.
• Design interfaces for high speed serial and parallel I/O such as Ethernet, USB, RS485, and EtherCAT
• Contribute to the design of real time control system FW and HW architecture
• Write and implement algorithms, and DSP routines developed by controls and product experts
• Debug software, firmware and hardware issues
• Work in a lab environment using digital embedded system debug tools (ICE, logic analyzers, JTAG, Oscilloscopes, etc.)

Qualifications:

• 5 years of experience in motion control and driver development or similar role, preferably in a Linux environment
• Strong programming background in C/C++
• Experience supporting all stages of the development lifecycle
• Excellent knowledge of OS coding techniques
• Familiarity with USB controllers and low-level software implementation
• Ability to quickly and efficiently convey technical and complex ideas
• Flexibility to work both independently and as part of a larger team
• Familiarity with software configuration management tools, defect tracking tools, and peer review
• Excellent time management and interpersonal communication skills
• Bachelor’s degree, in Engineering, Science or Programming with emphasis on software development

Desired Skills:

• Familiarity with NC machine tools or robotic control and motion interpolation a plus