AI Inference Chip Software Driver Developer Job Description

Flex Logix is developing industry-leading AI inference engines and we are the #1 provider of eFPGA solutions. Our InferX X1 is the industry's fastest and most-efficient AI edge inference accelerator that will bring AI to the masses in high-volume applications, surpassing competitor's performance at 1/7th size and much lower price. InferX X1 is available as a chip, PCIe board and M.2 board. InferX X1 is working and running YOLOv3 today; we launched it at the Linley 2020 Fall Processor Conference. Our Inference Compiler is easy to use and our APIs for Infer X1 allow rapid integration by the customer. Production shipment and compiler availability commences mid-2021. Our architecture is covered by dozens of patents and is highly differentiated giving us a sustainable competitive advantage.

We recently completed a $55M funding round.

Flex Logix is a rapidly expanding, high growth company and is seeking a Diagnostic and Driver Software Developer. Our products are very cost effective but very high performance, so both the hardware and software need to work together seamlessly and efficiently.
The right candidate needs to be able to support and expand our diagnostics and drivers software for our InferX X1 chip. The software is written in C/C++ language, and works in Windows and Linux operating systems environments. The purpose of this software is to enable our chip to perform inference acceleration as well as perform diagnostics on various hardware blocks of the chip under various operating conditions.

Responsibilities:

- Read and understand specification of the InferX1 chip Software to Hardware interface.
- Support and expand the C/C++ X1 chip driver functionality under Linux and Windows OS, including the kernel space driver module as well as user space functional driver
- Expand diagnostics software functions to a deeper analysis of HW failures under extreme environmental conditions

Qualifications:

- 1-5 years industry experience creating system or embedded software
- Understanding of Linux and Windows OS, its basic functional blocks and the OS driver structure
- Willingness to learn and quickly acquire necessary knowledge and experience with Linux and Windows OS driver and system-level software functional blocks
- C/C++ programming proficiency
- Understanding of hardware architecture and the way that software interacts with hardware
- Familiarity with software support of hardware peripheral devices, like DRAM controllers, I2C devices, DMA and interrupt controllers

We are looking for a passionate individual who would like to change the world. They must be entrepreneurial in spirit, an innovative problem solver, and a self-starter who thrives in a startup environment.

The candidate must live in the Bay Area or Austin, TX, and have a US citizenship, permanent residency ("green card"), or a current H1-B visa.