1. Tell me about yourself

After I immigrated to Canada, I joined ViXS as a driver engineer, to fix bugs, add new features for PCIe device mode av driver, and ported the driver to embedded Linux and other embedded platform.

After two years, I was promoted to driver team leader, responsible for new designed SoC chip Linux bootloader, kernel, io drivers, like uart/i2c/spi/eth/sata/usb/sd/pcie host driver. First, we tested on FPGA before tape out, then bring up on SDK board after the chip came back, and then did performance benchmark, profiling, SDK release, customer issue fix and support.

After so many years development on 4 generation chips, I have in-depth understanding on kernel internal, such as D-Cache, MMU, IPC, DMA, multithread programming, application/kernel/driver/firmware interface

1. What’s your job as team leader

Task estimation

Divide and assign development task

Priority

Evaluation with boss

1. Example of interesting/difficult project

Vcomm driver

1. Example of Bug which is hard to debug

Kernel crash duo to sata driver overwrite memory

Ping very slow while system idle

Performance optimization for 4 direct recording plus 4k player