Aleksandr Anisimov
System/Embedded Software Engineer

Looking for an Embedded or System Software related position.

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SKILLS

Basis	C, Bash, GNU make, Git, Perforce, st-link, Trace32
Have experience with	C++, Python, QML, HTML, CSS, JavaScript, SQL
Other	Vim, Markdown, LaTeX, RPM spec
Keywords	SSD, STM32, DSP, ARM, TrustZone, REE, TEE, Linux kernel, LDD

EDUCATION

National Research Nuclear University MEPhI

Bachelor's degree, laser physics, sept. 2013 - june 2017

Master's degree, embedded systems, sept. 2017 - june 2019

WORK EXPERIENCE

Now 2021 – Now

SSD Firmware Development Engineer @SK Hynix
Memory solutions

- Implement NVMe SSD firmware layers (HIL/FTL/FIL) in C/C++
- Implement firmware test code for regression failures/corner cases troubleshooting
- Perform firmware code review and improvement
- Perform firmware failure analysis and corrective actions applying
- Collaborate with SoC/DV/QA/SQE/etc teams involved in SSD product creation process

Jul 2019 – Nov 2021

System Software Engineer @Aurora OS
Mobile OS based on Linux

- Development TEE side of Russian fork of Sailfish OS (Aurora OS)
- Development hardware-backed keystore and trusted services
- Designed new features for Linux kernel OP-TEE driver for in-house Linux distro
- CVE fixing for government certification (FSTEK Russia)
- Took part in preparation solution for TEE logger

Sept 2018 – Mar 2019

Embedded Software Engineer @Yandex
Self-driving cars

- Development emergency stop button for self-driving cars (FreeRTOS, STM32, CAN, radio module)
- Reverse engineering for update protocol for radio modules to update its firmware by other chip
- Development from scratch driver for SPI-based e-paper displays
- Writing unit-tests with cpputest for main board in a car

Feb 2018 – Sept 2018

Embedded Software Engineer @SmartAirkey
Wireless solutions startup

- Development firmware for a Bluetooth-lock based on Nordic BLE stack and FreeRTOS
- Soldering and testing boards

Sept 2016 – Feb 2018

Junior Embedded Engineer @Amplituda
Radiation safety technologies

- Development firmware for γ-sensors based on RS-485 and stm32f103
- Development low-level drivers for ADC, DAC, OLED, touchscreens, RTC, USB, DHT11, HD44780 etc

ACHIEVEMENTS

- Fix CVE-2020-6096 in GNU C Library for ARMv7 memcpy(). More info: [link1], [link2], [link3], [link4]
- Loadable plugin framework in OP-TEE project. More info: [link1], [link2], [link3], [link4], [link5], [link6]