Oleksandr Kravchenko

Software Engineer

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Summary

More than 10 years experience in IT.
Background in: Android system programming, Rust, Linux Kernel, embedded and MCU's.
Have drivers and patches in Linux kernel mainline. Links to kernel.org and LKML [1], [2], [3].
Participation in startup creating from scratch: Air Metal Detector.
Experience in schematic and PCB development.

Key Skills

C, Rust, Bash, Make, ARM Assembler
Android, Embedded, Linux Kernel, Bootloaders, SPU, TrustZone
ARM-based mobile devices, STM32, AVR and PIC MCUs
JTAG debuggers, USB analyzer, Logic analyzer, Oscilloscope
GCC, LLVM, GDB, Make, Cargo, Git, Gerrit, Wireshark, Android NDK/Studio, KiCad etc.

Experience

From 2014   **Senior Software Engineer**, *Samsung Electronics*, Kyiv.

Mobile Security Lab
- Android security services development (HIDL)
- HIDL services implementation: Keymaster, Gatekeeper, ConfirmationUI, Weaver
- TrustZone and SPU SW development (C, Rust)
- Fixing of security issues in Android and Kernel
- Android testing tools and Apps development
- Mobile devices security certification
- Testing of the product after code done

2013 – 2014   **Linux Kernel Developer**, *GlobalLogic*, Kyiv.

Projects: Marvell, Texas Instruments
- Supporting Linux Kernel for TI OMAP4/5 and Marvell PXA18xx/19xx platforms
- Development drivers for Linux Kernel mainline
- Peripheral drivers supporting: DMA, MMC, I2C, SPI, USB, WiFi, power management
- Bootloader drivers development
- Fixing issues on Linux kernel over Xen hypervisor

2010 – 2013   **Software/Hardware Engineer**, *Energotecnics*, Kramatorsk, Ukraine.
- Firmware and PCB development for gas heating control systems based on MCUs
- PLC based wagon defrosting control system development

Education

2004–2009   **Specialist degree**, *Donbas State Mechanical Engineering Academy*, Kramatorsk.
Speciality: Embedded and automation systems engineer

Languages

English	Intermediate		Russian	Fluent
Ukrainian	Fluent			