Sam Protsenko

Software Engineer

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Summary

Software engineer with more than 10 years of professional experience. Main area of expertise is Linux kernel, bootloaders, firmwares and system level user space Embedded programming on ARM-based devices. For the last 5 years has been contributing to open-source projects and involved with upstreaming activity. Has prior background in cross-platform applications development in C++/Qt, algorithms and electronics. Active member of open-source community, mentor, speaker.

Experience

2018–2020 **Team Leader**, *GlobalLogic*, Kyiv.
Supporting the BEAGLEBOARD X15 board and upstreaming work.
- Porting Android to a new board and upstreaming it with a small team: [1]
- Adopting VPN from upstream kernel in AOSP: [2]
- Implementing Android 10 boot sequence: [3]

2012–2018 **Software Engineer**, *GlobalLogic*, Kyiv.
Platform development in Linux kernel and bootloaders, upstreaming.
- Implementing and supporting drivers: [4]
- Maintaining boot sequence and fastboot in U-Boot: [5]
- Board bring ups
- Bug fixing (drivers, device tree, bootloader)
- Migrating to new kernel versions
- Implementing XIP boot from NOR flash boot (automotive)
- System boot time optimizations (automotive)

2009–2012 **Software Developer**, *AlterEGO*, Kramatorsk.
Cross-platform software design and coding.

Education

2004–2009 **Specialist degree**, *Donbas State Mechanical Engineering Academy*, Kramatorsk.
Speciality: Automation of technological processes

Computer skills

Languages	C, C++, Bash
Projects	Linux kernel, U-Boot, Android
Architectures	ARM32, AArch64, x86, STM32 (Cortex-M), MSP430

Languages

Ukrainian	Fluent	*My native language*
Russian	Fluent	*My native language*
English	Upper-intermediate	*Speaking, reading and writing*

Other Activities

2011–Today	Maintainer of "INSTEAD" Debian package: [6]
2015–Today	Active member on StackOverflow (>10k reputation): [7]
2019	Organizer of "Root Linux Conference" in Kyiv: [8]
2018–Today	Creator and instructor of Linux kernel course: [9]
2017–2019	Speaker at Linaro and GlobalLogic events

References

[1] https://android-review.googlesource.com/q/author:protsenko

[2] https://connect.linaro.org/resources/bkk19/bkk19-414/

[3] https://connect.linaro.org/resources/san19/san19-217/

[4] https://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/log/?qt=author&q=protsenko

[5] https://gitlab.denx.de/u-boot/u-boot/-/commits/master?search=protsenko

[6] http://packages.debian.org/sid/instead

[7] https://stackoverflow.com/users/3866447/sam-protsenko

[8] https://linux.globallogic.com/

[9] https://github.com/joe-skb7/kernel-lectures