Sam Protsenko

Software Engineer
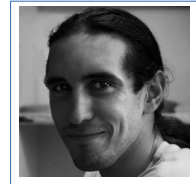
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Summary

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

Experience

2020–Present	**Software Engineer**, *Linaro* Linaro Consumer Group Kernel Team
2018–2020	**Team Lead**, *GlobalLogic*, Kyiv Project: Texas Instruments (Linaro assignee for LCG). Role: 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] ○ Running Android 10 with mainline kernel on BEAGLEBOARD X15
2012–2018	**Software Engineer**, *GlobalLogic*, Kyiv Projects: Texas Instruments (directly and as Linaro assignee for LEG and LMG), others. Role: Platform development in Linux kernel and bootloaders, upstreaming. ○ Implementing and supporting device 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 (automotive) ○ System boot time optimizations (automotive) ○ Supporting Android kernel on TI OMAP4/OMAP5 SoC
2009–2012	**Software Developer**, *AlterEGO*, Kramatorsk Role: Cross-platform software design and coding (C++/Qt).

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
CPUs	ARM32, AArch64, x86	MCUs	AM57x, AM65x, STM32, MSP430
Tools	GCC, GDB, Make, Git, Vim	Hardware	JTAG, scope, logical analyzer

Languages

Ukrainian	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