

Semen Protsenko

Software Engineer

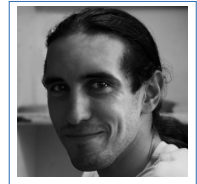
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Summary

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**

Team: Linaro Consumer Group, Kernel Team.

Role: Supporting the WinLink's E850-96 board.

Activities: Board bring up, enabling it in mainline kernel and U-Boot, upstreaming.

2018–2020 **Team Lead, GlobalLogic, Kyiv, Ukraine**

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, Ukraine**

Projects: Texas Instruments (directly and as Linaro assignee for LEG and LMG), others.

Role: Platform development in Linux kernel and bootloaders, upstreaming.

- Supporting Android kernel on TI OMAP4/OMAP5 SoC
- Board bring ups, bug fixing, migrating to new kernel versions
- Implementing and supporting device drivers: [4]
- Maintaining boot sequence and fastboot in U-Boot: [5]
- Implementing XIP boot from NOR flash (automotive)
- System boot time optimizations (automotive)

2009–2012 **Software Developer, AlterEGO, Kramatorsk, Ukraine**

Role: Cross-platform software design and coding (C++/Qt).

Activities: Implementing optical character recognition, game clients, interaction with web, apps for automating diverse tasks.

Education

- 2008–2009 **Master of Science in Computer Aided Engineering**,
Donbas State Mechanical Engineering Academy, Kramatorsk, Ukraine
- 2004–2008 **Bachelor of Science in Computer Engineering Technology**,
Donbas State Mechanical Engineering Academy, Kramatorsk, Ukraine

Computer skills

Languages	C, C++, Bash	Projects	Linux kernel, U-Boot, Android
CPU	ARM32, AArch64, x86	MCUs	AM57x, AM65x, STM32, MSP430
Tools	GCC, GDB, Make, Git, Vim	Hardware	JTAG, scope, logical analyzer

Languages

- Ukrainian Native or bilingual proficiency
- English Professional working proficiency

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>