

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
 - Adopting VPN from upstream kernel in AOSP
 - Implementing Android 10 boot sequence
 - 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
 - Maintaining boot sequence and fastboot in U-Boot
 - 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 OCR, 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
CPUs	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
2015–Today	Active member on StackOverflow (>10k reputation)
2019	Organizer of “Root Linux Conference” in Kyiv
2018–Today	Creator and instructor of Linux kernel course
2017–2019	Speaker at Linaro and GlobalLogic events