

# Semen Protsenko

*Software Engineer*

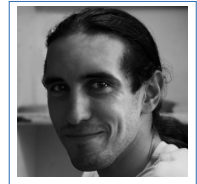
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## Summary

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 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
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