# Semen Protsenko

*Senior 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

**01/2025– Present**  
**Senior Software Engineer**, *Linaro*, Austin, TX, USA

**12/2022– 12/2024**  
**Software Engineer**, *Linaro*, Austin, TX, USA

**07/2020– 10/2022**  
**Software Engineer**, *Linaro*, Kyiv, Ukraine  
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.

**05/2018– 05/2020**  
**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

**02/2012– 05/2018**  
**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)

**09/2009– 01/2012**  
**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

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| 09/2008–<br>06/2009 | **Master of Science in Computer Aided Engineering**,<br>*Donbass State Engineering Academy*, Kramatorsk, Ukraine |
| 09/2004–<br>06/2008 | **Bachelor of Science in Computer Engineering Technology**,<br>*Donbass State Engineering Academy*, Kramatorsk, Ukraine |

## Computer skills

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|---|---|---|---|
| Languages | C, C++, Bash | Projects | Linux kernel, U-Boot, Android |
| CPUs | ARM32, AArch64, x86 | MCUs | Exynos850, AM65x, AM57x, OMAP5, OMAP4, STM32, MSP430 |
| Tools | GCC, GDB, Make, Git, Vim | Hardware | JTAG, scope, logical analyzer |

## Languages

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| Ukrainian | Native or bilingual proficiency |
| English | Professional working proficiency |

## Other Activities

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| 2019 | Organizer of "Root Linux Conference" in Kyiv |
| 2018–2022 | Creator and instructor of Linux kernel course |
| 2017–2019 | Speaker at Linaro and GlobalLogic events |
| 2015–Today | Active member on StackOverflow ($>$10k reputation) |
| 2011–2022 | Maintainer of "INSTEAD" Debian package |