

# Sam Protsenko

Software Engineer

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## Summary

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

## Experience

- 2018–2020 **Team Leader**, *GlobalLogic*, Kyiv.  
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]
- 2012–2018 **Software Engineer**, *GlobalLogic*, Kyiv.  
Platform development in Linux kernel and bootloaders, upstreaming.
  - Implementing and supporting 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)
- 2009–2012 **Software Developer**, *AlterEGO*, Kramatorsk.  
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  
Architectures ARM32, AArch64, x86, STM32 (Cortex-M), MSP430

## Languages

- Ukrainian Fluent  
Russian Fluent  
English Upper-intermediate

*My native language*

*My native language*

*Speaking, reading and writing*

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## 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

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## 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>