

# Oleg Kutkov

Kiev, Ukraine (open to relocate)

Email: [contact@olegkutkov.me](mailto:contact@olegkutkov.me)

Homepage: <https://olegkutkov.me>

Github: <https://github.com/olegkutkov>

LinkedIn: [www.linkedin.com/in/oleg-kutkov-9a7069147](http://www.linkedin.com/in/oleg-kutkov-9a7069147)

Visa status — visa sponsorship required

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## Embedded & Unix system software engineer

- Total work experience is over 10 years with great technology companies and research institutes.
  - Unix system software development, Linux and macOS kernel development and hacking, embedded development (AVR, STM, NXP, QCA), bootloaders (U-boot) hacking, electronics engineering.
  - Enthusiastic engineer with great development and debugging experience of complex problems on software and hardware levels.
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## Skills

**Programming languages:** C, C++, Python, Shell scripting, Assembly (x86, ARM)

**Operating systems:** Linux, macOS

**Hardware platforms:** x86/amd64, NXP QorIQ, NXP LPC, QCA Dakota, STM32, AVR

**Debugging tools:** GDB, LLDB, Valgrind, Lauterbach JTAG

**Databases:** MySQL, Sqlite, Oracle

**Version Control Systems:** Git, Subversion

**Collaboration tools:** Jira, Confluence, Bugzilla, Teamcity, GitHub, Jenkins

**Other:** PCB and schematics designing, soldering, hardware debugging, laboratory instruments.

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## Professional Experience

Ubiquiti Labs Ukraine | Kiev, Ukraine

December 2018 to Present

- Development of new wireless products for the 60GHz band.
- Porting and supporting the Linux kernel, U-boot, and other components for the new platforms.
- Operating system low-level support.
- Hot fixing of hardware problems.
- Networking research and optimization.
- Development of the auxiliary tools, debugging instruments, utils, and devices.

**Crimean astrophysical observatory | Nauchniy, Ukraine****March 2016 to October 2018**

- Development of allsky robocam and weather monitoring station.
- Development of autonomous cloud sensor and sky quality analyzer
- Telescope Sintez, development of precise positioning hardware and software.
- Development of Linux PCI device driver for rotary encoders interface board
- Development of an autoguider system for a big telescope, client software and motor controller hardware
- Development of the software for scientific purposes: image processing and converting, data analysis
- Radio Astronomy research
- Research of the new variable stars
- Participations in science conferences
- Lecturing

**Yandex | Simferopol, Ukraine****March 2013 — February 2016**

- Development of a user location detection code, area border polygons analysis, development of the modules for data generation, and testing.
- Development of an internal data distribution system using P2P BitTorrent technology.
- C++ and Python modules bindings for Node.JS
- Partial development of the Cocaine cloud platform, Node.JS workers
- Additional infrastructure components

**Sunbay Innovations | Simferopol, Ukraine****September 2009 — February 2013**

- Responsible for the project releases on all \*nix platforms, researching of new platforms (mobile/tablet), full project porting to the new platforms.
- Linux and Mac kernel modules development for deep integration with the system's network stack.
- Debugging and patching Android WLAN drivers
- Linux and Mac kernels debugging using RS232 and Firewire interfaces.
- Development of the server-side load balancing components.
- Adaptation of the user interface for different Linux distributions and desktop environments

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## Education

**Dates of studying:** 2005 – 2011

**Name of institution:** Kharkiv National Aerospace University

**Degree:** Master`s Degree in Computer Science

**Additional courses:** edX MIT Introduction to Aerospace Engineering: Astronautics and Human Spaceflight

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## Languages

Russian, Ukrainian

English reading, writing, speaking (intermediate)