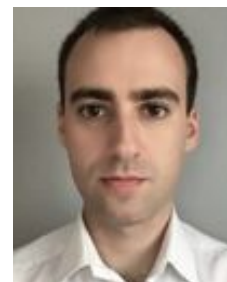


MEng. Jakub Sejdak



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Mobile: +48 608 050 163

Email: kuba.sejdak@gmail.com

Date of birth: 08.08.1990

kubasejdak.com

EDUCATION

Warsaw University of Technology

2009 - 2014

Faculty of Electronics and Information Technology - Computer Science

Engineer's Thesis: Shellcode similarity analysis by means of its execution graph.

Master's Thesis: Methodology of hiding malicious code from antivirus engines.

Award (2013): Graduation with distinction for the Engineer's Thesis and very good marks.

Award (2014): Graduation with distinction for the Master's Thesis and very good marks.

XIV LO im. Stanisława Staszica

2006 - 2009

The best high school in Warsaw and Poland according to the *Perspektywy* ranking.

JOB EXPERIENCE

Polish C++ Standardization Body

09.2018 - now

Technical Expert Member

- Reviewing, giving opinion and participating in the development of the ISO C++ standard.

TRUMPF Huettinger

01.2019 - now

Software Engineer

- Design and implementation of firmware for plasma power supplies.

Mobica

09.2017 - 12.2018

Senior Software Engineer

- **Project leader in the core UI (Qt/QML) feature development for the marine electronics vendor.**
- **Project leader in the reverse engineering of the gas & fire detection embedded system.**

Phoenix Systems

05.2015 - 07.2017

Operating System Engineer

- **Project leader in the commercialization of the Phoenix-RTOS for the gas meters industry.**
- Design and implementation of a real-time operating system (Phoenix-RTOS) for the embedded devices (full user-kernel space and user-space separation with MMU or MPU).
- Porting POSIX functionality to the Phoenix-RTOS.
- Custom implementation of the DNS and SNMP stacks (client and server).
- Porting GCC compiler and Newlib (libc) for the Phoenix-RTOS in the official GNU repositories.
- Design and implementation of the GUI tools for inspecting the PLC (Power Line Communication) networks in a Smart Grid industry.

Software Engineer

- **Award (2015): Bonus award for the hard work and participation in the Tizen TV project.**
- **Award (2014): Highest performance appraisal in the part (~ 20 people) at the end of year.**
- **Award (2014): Best employee in the group (~ 80 people).**
- Design and implementation of multiple modules in the SMART TV software upgrade.
- Integrating software upgrade with the Tizen operating system (embedded Linux).
- **Leader of the internal project with 2 trainees.**
- **Leader of the software upgrade component with up to 4-5 programmers.**

Samsung Electronics Poland R&D Center (SRPOL)06.2012 - 02.2014

Junior Software Engineer

- **Award (2013): Highest performance appraisal in the part (~20 people) at the end of year.**
- **Award (2013): SRPOL 2013 4Q Award.**
- Implementation of the DVB and ISDB analysis tools.
- Design and implementation of the OTA upgrade transportation protocol for the SMART TV.
- SMART TV software upgrade development: OTN, OTA, USB.

RRW Automatic (freelancing)12.2011

Programmer

- Implementation of the app for configuration of a 3D camera in the dashboards factory.

Samsung Electronics Poland R&D Center (SRPOL)07.2011 - 09.2011

Intern

- Implementation of a module for analysis and modification of the MPEG-4 DVB streams on the fly.

RRW Automatic (freelancing)04.2011

Programmer

- Implementation of the app co-operating with a vision system in the pharmacy factory and controlling several production line mechanisms.

SKILLS

Programming languages: C/C++ (advanced), Bash/Python (basic), Java/C# (basic), ARM asm (basic).

Foreign languages: English (advanced - CAE certificate).

Other: driving license cat. A & B, proven leadership skills, good presentation skills.

PERSONAL PROJECTS

[liballocator](#) - C++17 memory allocator for the embedded systems.

[kubasejdak.com](#) - personal website and blog about C++ and current projects.

[HAL](#) - Hardware Abstraction Layer with drivers for various chips and platforms.

[OSAL](#) - Operating System Abstraction Layer supporting various systems (e.g. Linux, FreeRTOS).

[platform](#) - Application bootstrap layer for various C/C++ platforms with ready-to-use CMake toolchain files.

[utils](#) - Set of reusable utility libraries and modules for C++ projects.