
EDUCATION

Master of Theoretical Computer Science, Charles University

- Master thesis: [Minimum representations of Boolean functions defined by multiple intervals](#)
- Main areas of interest: computational complexity, computationally hard problems, algorithms, artificial intelligence, robotics, computer game development, game studies

2012-09 — 2015-06
Prague, Czech Republic

Bachelor of Mathematical Informatics, Masaryk University

- Bachelor thesis: [Rabin Games on Finite Graphs \[in Czech\]](#)

2008-07 — 2012-01
Brno, Czech Republic

EMPLOYMENT

R&D Software Engineer, BTL Medical Technologies CZ

Development of a library for ECG signal processing

C++, Visual Studio

- Supervision of builds for two target platforms
- Cooperation with a team based in India
- Technologies: C++, Google Test, CMake, g++, TeamCity, Visual Studio 2015, GitLab, Ubuntu, Windows, JIRA, Doxygen, qmake, Qt Creator, C#, Python

2017-11 — 2018-11
Prague, Czech Republic

R&D Software Engineer, BTL India

Development of firmware for a medical device

C++, Qt 5.5, Linux

- Setup of cross-platform build system, automated tests, code quality metrics, performance measurements
- Technical job interviews
- Cooperation with a team based in Czech Republic
- Technologies: C++, Google Test, g++, Qt 5.5, qmake, QML, Qt Creator, GitLab, Ubuntu, JIRA, TeamCity, gcov, LCOV, SonarQube

2016-09 — 2017-10
Bangalore, India

Software developer, Hobrasoft

Development of applications for Windows and Android

Java, C++, Qt, Android

- Design and development of a pair of applications that deal with digital signatures in PDF documents ([GeoSign](#), [PDFMU](#))
- Prototype of an Android app
- Technologies: Java, iText, Maven, NetBeans, C++, Qt 4.8, Qt 5, QML, OpenSSL, Qt Creator, Git, Phabricator, Windows, Ubuntu, Android

2015-10 — 2016-09
Rožnov pod Radhoštěm, Czech Republic

Summer Student, CERN

Evaluation of a static code analysis tool

C++, Clang Static Analyzer

- Combination of summer school and a practical project
- Evaluation of Clang Static Analyzer as an alternative to Coverity
- Extension of Clang Static Analyzer with additional checkers
- Technologies: C++, Clang Static Analyzer, Git, JIRA, Linux

2013-07 — 2013-09
Geneva, Switzerland

Software Design Engineer, Honeywell

Development of a device that helps testing of aeroplanes

C++

- Software development, code analysis, system verification planning, documentation, cooperation with a team based in the United States
- Technologies: C++, Visual Studio 6, SVN, Serena Dimensions CM, Windows

2012-04 — 2012-09
Brno, Czech Republic