

# FILIP BÁRTEK

</> SKILLS

Advanced C++ Google Test Git  
Intermediate Python CMake Qt qmake Java Maven TeamCity Doxygen  
Elementary Unity C# Valgrind SageMath SVN Vagrant Ansible

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## 📅 EMPLOYMENT

### R&D Software Engineer, BTL Medical Technologies CZ

Development and maintenance of an ECG signal processing library 2017-11 — 2018-11

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

### R&D Software Engineer, BTL India

Development of a medical device 2016-09 — 2017-10

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

### Software developer, Hobrosoft

Development of applications for Windows and Android 2015-10 — 2016-09

Java C++ Qt Android

- Design and development of two applications that deal with digital signatures extensively
- Prototype of a Qt-based Android app
- Technologies: Java, iText, Maven, NetBeans, C++, Qt 4.8, Qt 5, QML, OpenSSL, Qt Creator, Git, Phabricator, Windows, Ubuntu, Android

### Summer Student, CERN

Extension of Clang Static Analyzer with additional checkers 2013-07 — 2013-09

C++ Clang Static Analyzer

- Summer school combined with a practical project
- Technologies: C++, Clang Static Analyzer, Git, JIRA, Linux

### Software Design Engineer, Honeywell

Development of a device that helps testing of aeroplanes 2012-04 — 2012-09

C++

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

### Mgr., Charles University

- Master thesis: [Minimum representations of Boolean functions defined by multiple intervals](#) 2012-09 — 2015-06
- Main areas of interest: computational complexity, computationally hard problems, algorithms, artificial intelligence, robotics, computer game development, game studies

### Bc., Masaryk University

- Bachelor thesis: [Rabin Games on Finite Graphs \[in Czech\]](#) 2008-07 — 2012-01