FILIP BÁRTEK

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SKILLS

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

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*, Hobrasoft**
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 additonal 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

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