Martin Bříza

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EDUCATION

Brno University of Technology, Faculty of Information Technology

Master of Information Technology   September 2014 to present

Currently attending the Intelligent Systems programme.

Bachelor of Information Technology   September 2010 to June 2014

- Wrote many projects, for example:
  * Basic C, C++ and Java programming, Bash scripting, Process synchronization.
  * Networking (TCP and UDP) projects, logical and AI programming.
  * VHDL Hardware design - state machines and a simple processor.
  * A Petri Net simulator; Checkers game with graphical and command line UI (both in teams of 2).
  * A simple programming language interpreter project (written in a team of 5).
- Finished with bachelor thesis titled **C compiler back-end for PicoBlaze-6**

Gymnázium K. V. Raise Hlinsko   September 2002 to June 2010

EMPLOYMENT HISTORY

Faculty of Civil Engineering, BUT Brno   January 2015 to present

External Consultant

Consulting the *Institute Of Computer Aided Engineering And Computer Science* on Linux and Qt matters.
As of October 7, 2015, I have participated on three different projects so far.

Red Hat, Inc.   February 2012 to present

Associate Software Engineer *Platform, Desktop*   August 2012 to present

In August, I transferred to part time employment to work on Qt and KDE in Fedora and Red Hat Enterprise Linux.

Internship - **Package Maintenance** *BaseOS*   February to July 2012

Hired in February 2012 to maintain a few packages in Fedora and Red Hat Enterprise Linux projects and to work with static analysis results on other ones.

OTHER EXPERIENCE

Google Summer of Code 2011 participant

VideoLAN organization with project Assembly Optimizations in VLC

Work consisted of optimizing highly profiled parts of VLC and rewriting them to SIMD assembly instructions (mainly SSE2)

Google Summer of Code 2013 participant

KDE organization with project Improving Polkit Integration in KDE

Worked on fixing bugs and improving the app itself. In the end, I rewrote the whole `polkit-qt-1` library to be implemented using D-Bus calls instead of the GLib based polkit library.

EBEC Competitions   March 2013 and March 2014

An international student competition in management tasks (Case Study) and fast problem solving (Team Design).

2013 - Case Study - We finished second with our Android application in the faculty round.

2014 - Team Design - We finished first with our Android children monitoring application in the faculty round.

Student Programming Marathons   October 2012 and March 2013

Competition held on the faculty for teams of students (1 to 5) to write an application during a single weekend.

Dungeons and Students Marathon - The task was to write a pervasive game that uses the school buildings as its environment. Resulted in an Android application locating user by wireless networks.

Zen Marathon - We were given only a few instructions, such as "zen", "meditation" and such, nothing more. We made a robot doing pushups and playing the Imperial March theme.

Open Source Projects

Participated in and contributed to many open source projects, especially related to Qt and KDE.

Other Projects

A few minor (and almost purely personal) projects written in free time. Most of them can be seen on my Github profile.

COMPUTING   **Programming**

- **Languages**

  - **C, C++** (especially with Qt) good knowledge - for 5 years.
  - **QML, Intel assembly** used extensively for about 1 year.
  - **Bash** - basic scripting.
  - **D, Java, VHDL Python** - written one larger or a few smaller projects.
  - **Ruby, C#, Lisp, Prolog, SQL, Javascript** used a few times.

- **Tools** Proficient in Git; Doxygen; GDB, Valgrind; LaTeX

Linux

- Using a Linux based OS as the main system since May 2010.

- Capable of basic server maintenance (I own a small VPS with a few services).

- Knowledge of PAM and some systemd subsystems (especially logind).

SPOKEN   **Czech** - Native speaker.
LANGUAGES
              English - FCE certified in 2012, been taking C1 level courses since 2013.

OTHER   **Driver's Licence** - B (cars)
INFORMATION
              Interests - music (with the focus on listening), reading, electronics, fitness