Martin Drozdík

Curriculum Vitae

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Key skills

C++ **6 years** active experience. Deep interest in best practices and C++11/14.

Qt **3 years** active experience, especially in **GUI** design and implementation.

IT skills

Operating systems	Linux / Ubuntu
Office	Mercurial, LibreOffice, LaTeX, Inkscape
Programming	Matlab / Octave, Bash, R, Eigen, Mathgl

Career summary

2011

PhD student, Computer science , Shinshu University , **Japan**.
Multi-objective optimization by evolutionary computation. C++/Qt

2014
2013

Researcher, Evolutionary computation, Dolphin team, Inria, **France**.
Numerical experimentation with evolutionary algorithms on a cluster computer. Analysis and interpretation of hundreds of GB of data. C++/Qt

2011
2010

Programmer, Accenture Technology Solutions, **Austria**.
Administration of IBM mainframe jobs, writing technical documentation.

2010
2008

Master, Applied mathematics, Comenius University, with honors.

2009
2008

Exchange student, Mathematics/Economics, University of Pisa, **Italy**.

2008

Freelance programmer , Ministry of Environment , **Slovakia** .
Design and implementation of a digital archive using C++ and MS Access

2008
2005

Bachelor, Applied mathematics, Comenius University, with honors.

Languages

English	Advanced	10+ years, IT and mathematics terminology.
German	Intermediate	8 months on an IT project in Austria.
Italian	Intermediate	Studied mathematics/economics in Italian.
Japanese	Intermediate	Living in Japan for 3 years, actively studying.
French	Beginner	Actively studying.
Slovak/Czech	Native	

About me

I have a very strong sense of *beauty* and *quality*. I aim for the highest efficiency in everything I do, and I always strive to *do The right thing*.

Work Experience

2011

PhD student, Tanaka-Hernan-Akimoto laboratory, Nagano,
evolutionary computation applied to multi-objective optimization.

I have developed geometric data structures which reduce the computational cost of frequently performed procedures in multi-objective optimization. The data structures achieve a speedup of up to two orders of magnitude. I developed a GUI application and a library to experiment with new multi-objective optimization algorithms. My research was published in the IEEE TEVC journal and in top-tier international conferences. I reviewed papers for top journals in the field. Most of my publications are freely available (researchgate.net/profile/martin_drozdik).

2014
2013

Researcher, Dolphin team, Inria, Lille,
exploration of differential evolution parameters.

Execution of a large number of numerical experiments on a cluster computer. Solving problems with analysis and interpretation of hundreds of GB of data on a single laptop computer.

2011
2010

Programmer, Accenture Technology Solutions, Vienna,
greenfield project for Allianz AG.

Working in an international team, communicating in both German and English. Administration of IBM mainframe jobs, writing technical documentation, and performing support tasks.

2008

Freelance programmer, Ministry of Environment, Bratislava,
digital archive of newspaper articles.

Design and implementation of retrieval software in C++ and MS Access.

2007

Volunteer, *Initiative to preserve environment in old town*, Bratislava.

We saved the park on Belopotockeho street from being replaced by an apartment building. I collected petition signatures, helped with advertising, and participated in legal battles (park.estranky.sk).

Awards and scholarships

2014
2010

Monbukagakusho, *Scholarship of the Japanese Ministry of Education*, Awarded to two students from Slovakia annually.

2013

IEEE Young Researcher Presentation Award, *IEEE Session*, Niigata.

2008

Erasmus, *Full scholarship and tuition for 6 months (University of Pisa)*.

2008
2005

Dean's motivational scholarship, *top 10% of class*, awarded 4 times.

Books that influenced me professionally

Robert C. Martin	**Clean Code**
Scott Meyers	**Effective C++, Effective Modern C++**
Herb Sutter	**Exceptional C++ Style**