

Curriculum Vitae

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Studies:

2006: *Sesca Technologies* internal Symbian OS training.

2004–2006: Studies at *Tampere University*, Language centre, field Finnish language. Passed all courses up to advanced level.

2001–2005: Studies at *Tampere University of Technology*; Department of Information Technology, major in Signal Processing; minor in Computer Science. Graduated in June 2005.

Master of Science Thesis: “Codeblock Optimization of JPEG-2000 Based Codec”, accepted in February 2005 with the highest evaluation.

1997–2002: Studies at *Czech Technical University* in Prague, Czech Republic; Faculty of Electroengineering, specialization in Computer Science; Computer Graphics. Studies interrupted after eight complete semesters because of moving to Finland.

1990–1997: High school studies, *Grammar school*, Lovosice, Czech Republic.

Job experiences:

04/2006 – present time: *Software designer*, Ab Sesca Technologies, Finland

My job is software design, implementation and integration for various purposes in mobile technologies. Up to now, I have used .NET technologies (C#) and Symbian OS (C++).

02/2002 – 06/2005: *Research assistant*, Tampere University of Technology, Finland.

The job involved mainly programming in C/C++ and Matlab (C/C++ codes were executable from Matlab environment). I worked on three different projects.

1. Practical usage of minmax redundancy codes in different applications (DNA compression, fax document compression).
2. Optimization of JPEG2000 codec (lossy image compression).
3. Gene feature selection - finding genes causing different types of cancer.

Originally, it was a part time job (20 hours a week), later full time job (altogether 18 months of full time job).

06/2000 – 09/2000: *Programmer of publishing system*, Macron Software, Prague, Czech Republic

I participated in designing and programming of online publishing system. The job involved mainly programming in ASP, Javascript, VBScript and SQL. The minor tasks was developing GUI for this system, analysis and discussions with customers. It was a full time job.

Fields of interests:

Programming, C, C++, C#, Java, Matlab, Symbian, Linux, embedded systems, mobile technologies, multimedia, image processing, image analysis, data compression, networking, physics, Finnish language, wiki

Language skills:

- Czech: native,
- English: fluent,
- Slovak: very good
- Finnish: average,
- German, Russian: some.

Computer skills:

- OS usage: Linux, Symbian, Windows, Solaris, BSD, VMS
- programming skills: C, C++, C#, .NET, Matlab, Java, Assembler,
- networking: protocols IP, TCP, UDP, RTP, RTCP, administration
- data compression algorithms
- multimedia processing algorithms
- servers: sshd, apache, proftpd, SQL servers, general server technologies
- computer graphics, OpenGL , GUI design
- CVS, SVN

Other skills and advantages:

- ability to read/write technical/scientific documentation and publications
- presentation skills
- ability to work both independently and in a group
- communicability
- willingness to travel
- driver's license A, B
- no need of a work or residence permit in Finland

Memberships:

- *Aldebaran Group for Astrophysics*, Prague, since 2002

Publications:

- J. Hofman: *Codeblock optimization of JPEG-2000 based codec*, Master of Science Thesis, Tampere University of Technology, 2005
- P. Kulhánek et al: *Astronomy and physics at the turn of the century II*, ISBN 80-903117-7-6, Valašské Meziříčí, 2005
- P. Kulhánek et al: *Astronomy and physics at the turn of the century*, ISBN 80-85843-49-8, Litvínov, 2004
- J. Hofman, I. Tabus: *Fax document compression using optimal minmax redundancy code*, Proc. of Finsig'03, 2003