

Curriculum Vitae

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Job experiences:

- 04/2006 – present time: Software designer, Neusoft Mobile Solutions Oy (Ab Sesca Technologies), Finland.
 - Software design, implementation and integration for various purposes in mobile technologies. Up to now, I have used .NET technologies (C#) and Symbian OS (C++).
 - Server backend and frontend development in Python (frontend in Django) since 2009.
- 02/2002 – 06/2005: Research assistant, Tampere University of Technology, Finland
 - Mainly programming in C/C++ and Matlab (C/C++ codes were executable from Matlab environment). I worked on three different projects.
 - Practical usage of minmax redundancy codes in different applications (DNA compression, fax document compression).
 - Optimization of JPEG2000 codec (lossy image compression).
 - Gene feature selection - finding genes causing different types of cancer.
 - Originally, 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
 - Design and implementation of online publishing system. Mainly programming in ASP, Javascript, VBScript and SQL. The minor tasks was developing GUI for this system, analysis and discussions with customers. A full time job.

Studies:

- 2011: *PSK-Service Oy*, QML & Qt Quick course, 3 days
- 2010: *PSK-Service Oy*, Qt for S60 Programming course, 3 days
- 2009–2011: *Tampereen työväenopisto*, Swedish Language
- 2006: *Sesca Technologies* internal Symbian OS training, 1 week.
- 2005–2006: *Onnenkieli Oy*, Finnish Language Intermediate Course, 6 months.
- 2004–2006: *Tampere University*, Language centre, field Finnish language. Passed all courses up to an advanced level.
- 2001–2005: *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: *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: *Grammar school*, Lovosice, Czech Republic, high school studies.

Language skills:

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

Computer skills:

- OS usage: Linux, Symbian, Windows, VMS
- programming skills: Python, C, C++, C#, .NET, Matlab, Java, PHP, Assembler
- data compression and multimedia processing algorithms
- servers: sshd, apache, MySQL, XML-RPC
- networking: administration
- JSON
- AJAX, jQuery
- Django
- QT
- GUI design
- SVN, Git; CM/Synergy
- CodeCollaborator
- Hudson/Jenkins
- Mediawiki

Fields of interests:

Programming, Python, Linux, Symbian, mobile technologies, multimedia, image processing, image analysis, data compression, photography, physics, Finnish language, wiki, administration of webs suomi-tsekki-seura.fi and kapelanatruc.cz

Other skills and advantages:

- ability to read/write technical/scientific documentation and publications
- presentation skills
- agile software development, scrum
- test driven development
- ability to work both independently and in a group
- communicability
- driver's license A, B

Memberships:

- Aldebaran Group for Astrophysics, Prague, since 2002
- Ursa, Helsinki, since 2009
- Suomi-Tšekki seura, since 2010

Publications:

- P. Kulhánek et al.: *Astronomy and physics, New horizons*, ISBN 978-80-904582-0-8, Prague, 2010
- 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
- I. Tabus, J. Hofman: *Fax document compression using optimal minmax redundancy code*, Proc. of Finsig'03, 2003