

# Curriculum Vitae

**Name** Ing. Vítězslav Vít VLČEK, Ph.D.  
**DoB** 10th July 1978  
**Nationality** Czech

**Address** Manětínská 29  
323 00 Plzeň  
Czech Republic

**WWW** <http://www.vvvlcek.info>  
**E-mail** [vitezslav@vvvlcek.info](mailto:vitezslav@vvvlcek.info)  
**Telephone** +420 378 774 222  
**GSM** +420 608 101 072  
**Skype** [vvvlcek2](https://www.skype.com/user/vvvlcek2)  
**Jabber** [vvv1@jabber.cz](mailto:vvv1@jabber.cz)



## Education & Qualifications

2002 – 2008 Finished PhD. study at the University of West Bohemia in Pilsen, Faculty of Applied Sciences, branch - Applied Mathematics. Subject of my PhD. thesis is:  
[1D and 2D Digital Data Filtering by the Inverse Radon Transform](#)  
1997 – 2002 University of West Bohemia in Pilsen, Faculty of Applied Sciences, ing. in Mathematical Engineering (branch Applied sciences and computer engineering), diploma thesis:  
2D frequency and directional filtering  
1993 – 1997 Secondary School of Electrical Engineering in Pilsen (SPŠE)

## Work Experience

2008 – [CA](#) – Mainframe division – analytic & developer of MF20 – Mainframe Software Manager – GWT application for installing and maintenance of mainframe software.  
2002 – 2008 Assistant at the Department of Mathematics of the Faculty of Applied Sciences at the University of West Bohemia. [www.kma.zcu.cz](http://www.kma.zcu.cz)  
1993 – 2008 Veřejná Informační Služba spol. s r. o., Pilsen, [web.visplzen.cz](http://web.visplzen.cz)  
Development and administration of CRM & ERP system in Lotus Notes, [web.visplzen.cz/cz/produkty/zakaznici](http://web.visplzen.cz/cz/produkty/zakaznici)  
Development of report system for accounting in FoxPRO.  
2007 Leader of coordinators – Dny Vědy (Days of Science) [www.dnyvedy.cz](http://www.dnyvedy.cz)  
2005 – 2006 AdHoc, s.r.o  
Co developer of Lotus Notes products – Gantt Chart and Resource Planner

## Additional Information

### Language skills

Czech – mother tongue  
English – upper intermediate level, [iBT Toefl](#) 78/120 (2008)  
German – basic level

### Computer skills

- C/C++, Java, GWT, Matlab/MEX, Visual Basic, JavaScript, HTML, XML, XSL, Assembler
- Senior developer Lotus Notes R4.6 – R6.5, C/C++ API, LSX toolkit, LotusScript, @Formulae.
- Advanced developer of FoxPro and Visual C++, MFC, Win32 API.
- Experienced user of Microsoft office products and OpenOffice.

### Projects & roles – analytic/developer

VC++/MFC – installation program for Visual FoxPRO applications, program for pin cards mastering & printing, general pin card reader, internal flashwriter for EEPROMs, internal DLL stuff for Visual FoxPRO & Lotus Notes.  
VC++/LSX – set of extension libraries for Lotus Notes based on LotusScript Extension Toolkit.

VC++/Direct X – massive parallel mathematics computation on graphics card using programmable pixel shaders.  
Lotus Notes – ERP & CRM system, Resource Planner, DbRecompiler (LotusNotes/VC++/DLL/ASM)  
Matlab/MEX – image processing (image restoration, inverse Radon Transform) , solving PDE for tomographic reconstruction.  
Java/GWT – Mainframe Software Manager (task output management).  
DOS/ASM – driver for sound card for DOS FoxPRO.

### **Mathematics skills**

Image Restoration, Radon Transform, Computerized Tomography, PDE, ODE, FFT, Numeric Computation, Computation on GPU, Parallel Computing, Statistic

### **Driving license**

Car

### **Academics Experience**

2007 CT Somatom Definition raw data processing.  
2007 Poster presentation at the 1st Young Researchers Conference on Applied Sciences Pilsen.  
2007, 2006 International summer school of German.  
2005 Presentation of my research on international conference on signal processing in Kerkyra, Greece.  
2004 – 2005 I obtained a grant from FRVŠ. I solved Inverse Radon Transform by Data Filtering on Graphics Card. [www.vvvlcek.info/iradon](http://www.vvvlcek.info/iradon)  
2004 Presentation of my work on the international conference on signal processing in Istanbul.  
2003 – 05, 2008 International summer school of English.

### **Publications**

1. Vítězslav Vít VLČEK. Comparison of Reconstruction Methods for Computerized Tomography. *The 1st Young Researchers Conference on Applied Sciences Pilsen, ZCU, 2007.* p. 86-91. ISBN 978-80-7043-574-8. URL: [www.vvvlcek.info/iradon/yracas07.pdf](http://www.vvvlcek.info/iradon/yracas07.pdf).
2. Vítězslav Vít VLČEK. Computation of Filtered Back Projection on Graphics Cards. *WSEAS TRANSACTIONS on COMPUTERS*, 4(9):1216-1221, September 2005. ISSN 1109-2750. URL: [www.vvvlcek.info/iradon/wseasvlcek.pdf](http://www.vvvlcek.info/iradon/wseasvlcek.pdf).
3. Vítězslav Vít VLČEK. Computation of Inverse Radon Transform on Graphics Cards. In Ali Okatan, editor, *Signal Processing*, pages 149-151, Istanbul, Turkey, December 2004. ISBN 975-98458-0-6. URL: [www.vvvlcek.info/iradon/icspvlcek.pdf](http://www.vvvlcek.info/iradon/icspvlcek.pdf).
4. Vítězslav Vít VLČEK. How to Use Level Set Methods in Computer Tomography. *Sborník PANM 12*, Dolní Maxov 2004. ISBN 80-85823-53-5. URL: [www.vvvlcek.info/iradon/panmvlcek.pdf](http://www.vvvlcek.info/iradon/panmvlcek.pdf).
5. Vítězslav Vít VLČEK. Efficient Use of the Graphics Card for Mathematical Computations. *Sborník semináře. 3. matematický workshop*, Brno 2004, p. 109-110. ISBN 80-214-2741-8. URL: [www.vvvlcek.info/iradon/mwvlcek.pdf](http://www.vvvlcek.info/iradon/mwvlcek.pdf).
6. Vítězslav Vít VLČEK. Aplikace diskrétní Fourierovy transformace, souvislost s Radonovou transformací. *Sborník Matematické modelování a jeho prostředky*, Brušperk 2002.