

## Curriculum vitae

**Name:** Mojmír Němeček, <mailto:mojmir.nemecek@gmail.com>

**Summary:** As a little boy I became interested in robots and “thinking technology”. I’ve been following this interest through primary school, secondary school, university. The “why” changed over the time, the interest did not. And important lesson learned: technology itself is dead, no feelings, no envisioning, no common sense...



### Work experience

2010	<b>Programmer</b> <ul style="list-style-type: none"> <li>• Development of e-shop application (teamwork) (C#).</li> </ul>	NetDirect, Ostrava, Czech Republic
2008 - 2009	<b>Programmer, Windows, Symbian, Software maintenance, Mobile devices, “pool” trainer, Telecommunications team.</b> <ul style="list-style-type: none"> <li>• Finalization of PC software for enhancing mobile device interconnectivity capabilities (C++,Qt).</li> <li>• Maintenance and support of embedded Java Runtime Engine for mobile devices with Symbian (C++,C#,Java).</li> <li>• Maintenance of embedded “homescreen” application for mobile devices with Symbian (C++).</li> </ul>	Tieto, Ostrava, Czech Republic
2007	<b>Programmer, Windows, Database applications, “pool” trainer, Forest team.</b> <ul style="list-style-type: none"> <li>• Maintenance and support of software for paper mills (TietoEnator Integrated Paper Solution) (C++,PL/SQL)</li> <li>• Assistance in newcomer training (Software Engineering in general, C++ development in particular)</li> </ul>	TietoEnator, Ostrava -Varenská, Czech Republic
2006 – 2007	<b>Programmer, Windows, Software Maintenance, Multilingual software, Telecommunications team.</b> <ul style="list-style-type: none"> <li>• Maintenance and support of several software components used by &lt;Customer&gt; Service Centres (C++).</li> <li>• Maintenance and support of &lt;Customer&gt;</li> </ul>	TietoEnator, Ostrava -Poruba, Czech Republic

**Work experience**

	<p>Software Updater application, user interface part (teamwork)(C++).</p> <ul style="list-style-type: none"> <li>• Design and implementation of localization testing support tools for the above (teamwork) (C++,C#,VBA).</li> </ul>	
2004 – 2005	<p><b>Programmer analyst, Microcontrollers, Windows, Real-Time Video processing, Analysis of Business Processes.</b></p> <ul style="list-style-type: none"> <li>• Design and implementation of software for measurement and evaluation of Czech Fireman contests. The system was also used during II. European Fire-Fighters and Rescuers Championship in Fire Sport. (teamwork) (Delphi)</li> <li>• Design and implementation of communication protocols for driving sport time-keeping displays and advertising video boards. Development of both firmware (TCP/IP aware Rabbit Semiconductor microcontroller) and PC software, including single purpose software (e.g. theatre captioning application)(Delphi,C)</li> <li>• Design and implementation of intranet system for following and control of software projects (Delphi).</li> <li>• Partial implementation designs of quality management system ISO 9001:2002.</li> </ul>	SIS Spektrum, Havírov, Czech Republic
1998 - 2004	<p><b>Programmer analyst, Windows, Database applications, Technical support, Joint software projects, Multilingual software.</b></p> <ul style="list-style-type: none"> <li>• Design, implementation and maintenance of an automatic company e-mail backup system with intranet access (Delphi).</li> <li>• Design and implementation of 3D data visualisation software (VRML), e.g. invoices, construction budget, Web server load. (teamwork)(Delphi)</li> <li>• Design, implementation and maintenance of a construction industry management system. (teamwork)(Delphi,T-SQL,InterBase)</li> <li>• Technical support for implementers of economic IS, concerning database engines and networks.</li> <li>• Development, installation and maintenance of IS for microbiological laboratories. Supported on both MS DOS and Windows platforms. (teamwork)(Turbo Pascal,Delphi,BTrieve)</li> </ul>	First Information Systems, Ostrava, Czech Republic

**Work experience**

1996 - 1997	<p><b>Programmer, Network administrator, Novell, LAN, WAN.</b></p> <ul style="list-style-type: none"> <li>• Installation and maintenance of local Novell networks.</li> <li>• Design, implementation and maintenance of communication infrastructure for automated countrywide office network for buying up shares. TCP/IP solution for MS DOS workstations.</li> </ul>	Software TDA, Havirov, Czech Republic
1995 - 1996	<p><b>Programmer.</b></p> <p>Implementation of beta version of IS KASystem for cooperative loan company. (teamwork)</p>	RealSoft, Prague, Czech Republic

**Education, courses and Certifications**

1994	Student of Department of Cybernetics and Informatics, 8 semesters, unfinished	Charles University in Prague, Czech Republic
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**Areas of expertise**

Windows platform	Over ten years of experience in software development for Microsoft platform starting with CP/M and I8080 assembler, through MS DOS, 16bit Windows up to Windows XP. I386 assembler, Win API, Win32 API, COM, Windows Scripting, Qt, .NET, Microsoft Office Visual Basic scripting.
Object oriented software design	Experience in object oriented and event oriented coding in various (even not OO) programming languages for 8bit, 16bit and 32bit processors, especially in Turbo Assembler, Turbo C, Turbo Pascal, Borland Delphi, Borland C++, Borland C++ Builder, Microsoft Visual Studio C++, .NET platform and C#. "Played with" knowledge of Java, SmallTalk, Scheme, Dylan, etc. Participation in design and integration of cross-platform and cross-language software systems using object modeling. Basics of UML modeling and object design guidelines.
Cross-language software development	Experience with designing, building and using of software libraries, components or frameworks for cross-language and/or cross-platform use. The point is to save time, enable system interactions and reuse both code and platform knowledge. This ability is based mainly on (at least theoretical) knowledge of different imperative languages and platforms and includes necessary negotiations and searching for compromise. The designs mentioned must consider and respect common protocols, formats, conventions and habits.
Database applications	Experience with relational database design and development of database applications. Single user proprietary format, client/server and multi-tier architecture with object oriented middle tiers. This experience is based on various database formats (DBF, Paradox),

**Areas of expertise**

SQL dialects (FireBird, Pervasive SQL, MS SQL with Transact SQL, Oracle with PL/SQL), protocols (ODBC, ADO, BDE) and database languages (DBase, FoxPro, DBFast, Clipper, Clarion).	
Networking and distributed applications	Experience with LAN and WAN networks from both administrator's and developer's point of view. Administration of Novell 3 server and network, Lantastic and Microsoft Windows network, Microsoft Windows based LAN server, basic CISCO router maintenance. Software use or implementation of different levels of network protocols (IPX/SPX, NetBIOS, TCP/IP, SMTP gateway, POP server, HTTP client and server, CGI, FTP client, TFTP server, RTP client/server, SNMP agent). Practical knowledge of structure of a Web application and related presentation languages HTML, CSS, XML/XSLT. Basics of web application frameworks ASP, PHP, Java Servlet. Practical experience with problems concerning asynchronous, parallel and distributed computing.
Software Engineering	Experience with software development "under control" and theoretical background of various software development methodologies including basics of team management. I also worked as small team project manager and project leader within a team of inexperienced (in a particular technology) programmers.
Business Processes	Basic knowledge of business processes in healthcare, construction industry, accounting, manufacturing (electronic circuits, paper industry). Mainly theoretical knowledge of methods of business process analysis, design and implementation in concordance with quality management system ISO 9001. Practical experience with extraction of requirements from "real" end users and theoretical awareness of knowledge engineering tasks.
Operating Systems and System level programming	I386 assembler implementation of LISP shell for student OS BDOS, port of core Delphi runtime library to OS V2OS, development of commercially used embedded 8bit processor in C language (no OS except runtime libraries, real-time requirements). Medium knowledge of Intel processor's protected mode principles and symmetric multi processing. Good knowledge of Win32 API and principles. Design and implementation of a few low level (user invisible) libraries shielding developers from cumbersome OS details. Basic user level knowledge of OS Linux and MacOS. Some years spent maintaining C++ software for Symbian OS.
Artificial Intelligence	Basics of so called AI principles: back-propagation neural networks, expert systems, declarative programming in Prolog, reflective software systems, agent oriented programming etc.

**Language skills**

Language:	Native	Fluent	Good	Basic
Czech	X			

Mojmír Němeček

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**Language skills**

English	X	
Russian		X
Polish		X
Slovak		X