



AD HOC KOMPETENCE

KONSULENTPROFIL: VVO 446

2015-06-18

Resumé

I am software engineer with many years of experience in IT at enterprise level.

I have in depth knowledge of the full software development lifecycle from initial requirements gathering through to analysis – design – implementation – test/stabilization and maintenance.

As a person I'm friendly, honest, structured in my work, and quality minded.

I'm striving to get the best results out of decisions taken.

Core Competancies

Professional competencies:

- ANSI C++/Visual C++, STD/STL, BOOST, ATL, COM, MFC, Win APIs, Debugging, C#, Java
- OOP/OOD/Patterns/TDD
- Development for Windows, Linux platforms
- Code quality, Security Development Lifecycle methodologies, and practices.

Personal Values:

- Quality minded
- Structured
- Reliable
- Responsible
- Cooperative

Enterprise Experiences

Aug. 2013 – Dec.
2015

Intel Security (McAfee), Aylesbury, UK
Software Development Engineer
External Consultant/Contractor

Main tasks:



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	<ul style="list-style-type: none"> • Development and maintenance core anti-malware software components (NT services, libs, dlls) incorporated into many of McAfee's products. • Crash dumps and Microsoft OCA reports analysis. • Debugging and unit testing. • Development across Windows desktop and server platforms. • Test-driven development by using unit-test tools. <p>Work done in a combined agile scrum (development and test) team, running in short cycles to develop functional software in quick iterations.</p> <p><u>Tools and technologies:</u></p> <p>Windows API environment , Windows internals , Multithreading, VC++, VS2013/C11, Lua, NT Services, RPC, WinDbg, CppUnitLite, XPerf, WPA, SVN, Source Insight, AppVerifier, McAfee internal tools and utilities. TDD, and agile methodologies.</p> <p><u>Platforms:</u></p> <p>Windows (XP ... 10) x86, x64</p>
<p>Sep. 2012 – Mar. 2013</p>	<p style="text-align: right;">Detsche Börse Group, Prague, Czech Republic</p> <p style="text-align: right;">Software Development Engineer</p> <p style="text-align: right;">External Consultant/Contractor</p> <p>(1) Strategic project “Position Management” in the Clearing and Settlement area.</p> <p>The definition of functional specifications, design of corresponding functional and technical solutions, and implementation of software components.</p> <p>Prototyping test tools.</p> <p>(2) Risk Management System (Project PRISMA) for EureX.</p> <p>Maintaining and developing a real-time system for risk management calculations.</p> <p>The system runs on Linux, utilizes GPUs for massive parallel</p>



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	<p>computations</p> <p>and is written predominantly in C++, but Python and Java are likewise used.</p> <p><u>Tools and technologies:</u></p> <p>C++, BOOST, Java, JAXB, Oracle 11G, MySQL, Eclipse, Qt, XML, XSD, ClearCase, Subversion, AMQP</p> <p><u>Platforms:</u></p> <p>UNIX/ Linux RedHat, Windows</p>
<p>Feb. 2011 – Jul. 2012</p>	<p style="text-align: right;">SAXO Bank AS, Hellerup, Denmark Senior Software Development Engineer External Consultant/Contractor</p> <p>Project description:</p> <p>Server-side developer/designer of Windows Services, class libraries, and utilities for internal price distribution of banking products.</p> <p>Main tasks:</p> <ul style="list-style-type: none"> • Development (C++) of high performance real time data distribution servers (NT Service) and price distribution in multithreaded, multicore environment. • Development of class libraries, which used as the foundation for the bank's core technologies, applications, frameworks, utilities, and tools (Mainly interfacing with C++ code). • Development of internal tools and utilities for improving testability, and maintainability of the developed products. • Developed RTD server for price catching and presentation in MS Excel. • Maintenance of retail software modules, and bug fixing.



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	<p><u>Tools and technologies:</u></p> <p>C++/Visual C++, NT Services, 29West Ultra Messaging, C++, STD/STL, TR1, BOOST, ATL, COM, C++/CLI, Windows APIs, C#, TFS, Multithreading, Multicore Application Development.</p> <p><u>Platforms:</u></p> <p>Windows XP/Vista/2003 Server/2008 Server/Windows 7 (x32/x64).</p>
2003 - 2011	<p style="text-align: right;">Microsoft Corporation, Vedbaek, Denmark Software Development Engineer II</p> <p>Main tasks:</p> <ul style="list-style-type: none">• MS Dynamics AX (Axapta) Kernel development (C++).• Development of Dynamics AX Workspace MorphX (Dynamics IDE).• Development of Dynamics AX Debugger (X++ debugger).• Development of Dynamics AX Configuration utilities.• Rebranding Axapta into MS Dynamics AX.• Removed 3rd party modules (Giblets) form Dynamics AX. <p>Additional Tasks:</p> <p>[Improving the code quality]</p> <ul style="list-style-type: none">• Was the team Trustworthy Computing (TwC) agent.• Introduced PRefix/PRefast/OACR code analysis tools for Dynamics AX.• Integrated Dr.Watson with Dynamics AX, established practices for tracking, and analyzing Watson crash dumps, and automated registration corresponding bugs in Microsoft bug tracking system (Product Studio).• Introduced and advocated some practices for improving the product code quality (e.g. mandatory code review, using secure libraries, get rid of “banned” APIs, SAL, creating and reviewing Threat Modeling documents, and like).• Refactoring legacy code. <p>[Improving testability]</p> <ul style="list-style-type: none">• Extended Dynamics AX internal APIs for improving testability of the



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	<p>product, as well as for extending code coverage.</p> <ul style="list-style-type: none"> • Implemented local crash dumps in silent mode to improve automated tests runs. • Cooperated with build team on automating code defects reporting, when defects could be found during build time (using dynamic code analysis tools, dead code detection tools, and like). • Prototyped integration Dynamics AX with WER (Windows Error Reporting) framework. <p>[Misc.]</p> <ul style="list-style-type: none"> • Got award as “Best Bug Killer”. • Worked through three product releases and one service pack. • Invited to do code review for different Dynamics teams in Vedbæk, Seattle, Fargo, as well as for vendors (Boston, Kiev, and Bangalore). • Converted codebase from VS6.0 to VS2003, VS2005, VS2008. <p><u>Tools and technologies:</u> VC++, STD[STL]/TR1, MFC, WinDbg, Windows APIs, Application Verifier, Bounds Checker, Purify, Stingray Studio (GUI), Microsoft internal tools, and frameworks.</p> <p><u>Platforms:</u> Windows XP/Vista/2003 Server/2008 Server/Windows 7 (x32/x64).</p>
<p>2000 - 2003</p>	<p style="text-align: right;">I-data International AS, Bagsvaerd, Denmark Software Engineer</p> <p>Development of SafeCom – Document Management and Accounting software system for controlling and monitoring hardcopy (printouts and copying) production.</p>



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	<p><u>Tools and technologies:</u></p> <p>MS VC++, STL, MFC, ODBC/SQL, MS ADSI/LDAP COM, Winsock 2, Win32 APIs, MS Core Technologies 4.0, Compuware DevPartner Studio for Visual C++ (BoundsChecker, TrueTime, TrueCoverage)</p> <p><u>Platforms:</u> Windows NT/2000/XP</p>
1999 – 2000	<p>Framfab AS, Copenhagen, Denmark, Sweden</p> <p>Software developer</p> <p>External Consultant</p> <p>Consulting work related to “Diabetes” project for Novo Nordisk AS.</p>
1996 - 1999	<p>Nordea (Unibank) AS, Copenhagen, Denmark</p> <p>Software developer</p> <p>Different internal bank projects.</p> <p><u>Tools and technologies:</u></p> <p>IBM C-Set++, RogueWave Tools.h++ klassebiblioteker, Oracle database.</p> <p>MS VC++, COM/ATL 3.0, MFC, MS SQL Server 6.5.</p> <p>C, Clipper, Blinker, DBIV databaser, Borlad C++ for OS/2 V1.5</p> <p><u>Platforms:</u></p> <p>IBM AIX på RISC RC/6000 machines, Windows NT 4.0, OS/2, DOS Extended Mode.</p>
1993 - 1996	<p>Delta Software AS, Albertslund, Denmark</p> <p>Software developer</p> <p>Development of entrance control system DanTid.</p> <p><u>Tools and technologies:</u></p> <p>Borland Turbo C, Liant C-Scape, Blinker, Raima DBVista database manager.</p> <p><u>Platform:</u> DOS</p>
1991 - 1993	<p>Haldor Topsøe AS, Naerum, Denmark</p>



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	<p style="text-align: right;">Engineer</p> <p>Programming control system SattCon 90, using Sattcontrol på PDP-11 machine.</p> <p>Configuring Rosemounts RS-3 operator control system, using special programming tools from Rosemount Inc.</p>
1985 - 1988	<p style="text-align: right;">Moscow State University, Russia Engineer/Researcher</p> <p>Research, and computer modeling of the physical processes, which are present in gas discharge during production of ozone.</p> <p><u>Tools and technologies:</u></p> <p>PL/1/M, Fortran, Turbo Pascal, C, Assembler.</p> <p><u>Platform:</u></p> <p>Mainframes (IBM 360/370), PDP-11, Intel 8008 based microcomputers.</p>
1984 - 1985	<p style="text-align: right;">Technical University in Kaluga, Russia Engineer</p> <p>Head of microcomputers lab.</p> <p>Teaching Computer Science.</p>
Education	
1978 - 1984	<p style="text-align: right;">Moscow Technical University, Russia</p> <p>Computer science engineer. Title: System engineer.</p>
Post Education	
	<p>Different courses, seminars, conferences, events for C++/VC++/MFC/COM/ATL, OOP/OOD/TDD, design patterns, debugging, secure code, trustworthy computing, code quality, and like.</p>
Additional info	



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Languages	Russian, Danish, English
Civilstate	Married, 1 child (daughter 9 year old)
Age	52 år
Nationality	Danish
Professional Interests	OOP/OOD/Patterns, ANSI C++/VC++, system development on Windows platforms. Software architecture and design. Refactoring. TDD. Debugging. Project management related to IT outsourcing (preferably Eastern Europe, Russia).
Fritime Interests	Family, books, sport, theatre, film, fitness (light version).