

Resume

Igor Zlatković



Birth: 13. March 1974 in Sarajevo, Bosnia

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Marital status: married, no children

Nationality: German

I am experienced in the field of software engineering in many industrial areas, ranging from device drivers to web-applications. I lay particular interest in the application of software in scientific and technical field, as well as building enterprise applications.

Brief History

I was born on 13. March 1974 in Sarajevo, the capitol of today's Bosnia. Living in a city surrounded by high mountains, I found love for snow sports in early childhood. There I attended the secondary school for electrotechnics and electronics.

In 1992 I moved to Frankfurt am Main, Germany's most prominent financial centre. I studied at the Frankfurt's University of Applied Sciences and collected working experience in the software industry.

I had engagements in the financial sector, making software for prominent banks in Tokyo, Japan and in Frankfurt, Germany. Today I live in Munich, Germany, engaged in the embedded programming in the automotive industry. I am married, have no children.

Skill Overview

I am professionally skilled and experienced in software engineering, applied to a wide palette of products. I have a strong sense for object-oriented system analysis and algorithm design.

I have experience with the following technologies and products:

- **Analysis:**
OOA, OOD, UML, SA(RT)
- **Languages:**
Programming: C, C++, Java, C#, ADA
Machine: IA32, PPC, V850 and S12X assembly
Other: IDL, SQL, XML, XSL, HTML, some Perl, some Lisp, VHDL
- **Operating Systems:**
Desktop/Server: Solaris, Linux, Windows, some HP-UX.
Embedded: OSEK, OSEKtime
- **Technologies:**
Devices: DDI/DKI
Platforms: Java2, .NET
Graphics: SVG, GDI+, Xlib, OpenGL
Security: SmartCards, PC/SC, CT-API, X509, OpenPGP
Components: CORBA, COM+, RPC
Data: DBLIB, OLEDB, OLAP, MAPI
Protocols: SMTP, IMAP, HTTP, DNS, LDAP, SSL/TLS
Embedded: CAN, FlexRay, MOST, AUTOSAR-SWS, SPI
- **Products:**
Sci, Eng: Mathematica, MatLab, Lauterbach, some AutoCAD, some I-DEAS
Server: Apache/Tomcat, Sendmail, Sybase, MSSQL, MS Exchange, some MySQL, some PostgreSQL

Professional Background

Education

- In April 1992 graduated as electronics technician, fourth degree, at the Secondary School for Electrotechnics "Jaroslav Černi" in Sarajevo, Bosnia.
- Beginning march 1994, studied applied computer science at the University of Applied Sciences in Frankfurt, Germany. Study cancelled due to time constraints imposed by work.
- Since october 2003, studying mechatronics at the Private Remote University of Applied Sciences in Darmstadt, Germany.

Certifications

- IBM Certified Associate Developer - WebSphere
- Microsoft Certified Professional - .NET

Working History

- September 2004 – dato: Volke GmbH, München, Germany
IT-consultant, software developer and system administrator
- October 2003 – August 2004: analytiq consulting gmbh, Offenbach, Germany
IT-consultant and software developer
- April 2003 - July 2003: Dresdner Bank AG, Frankfurt, Germany
Training in risk management, application development
- October 2000 - October 2002: deanet GmbH, Frankfurt, Germany
Software developer
- March 2000 - September 2000: WestLB Systems, Tokyo, Japan
Software developer
- January 2000 - February 2000: Hand GmbH, Wiesbaden, Germany
Software developer
- September 1995 - December 1999: Glück & Kanja GmbH, Offenbach, Germany
Software developer

Languages

- Croatian, Serbian - mother tongue
- English - fluently spoken and written
- German - fluently spoken and written
- Japanese - basics

Hobbies

- Skiing
- Computers

Project Experience

The following projects I have been, or still am, involved with. They appear in chronological order, based on the start date. Note that some projects overlap with others.

- **Active Steering**

Oct 2005 - dato, BMW Research and Innovation Centre, München, Germany.

The development of the embedded software for the active steering components for the upcoming BMW 7, X6 and 5 series. The task involves the development of software for two ECUs, for the front and the rear axis, each containing two distinct microcontrollers. This project has received the Bavarian Innovation Award in June 2006.

Responsible for the design, implementation and test of the software components for non-volatile storage, ECU diagnostics, series coding and restbus simulation.

ECU software implemented in C, restbus simulation in CAPL; used MatLab, CANoe.Flexray, CM-Synergy, Lauterbach Debugger, Eclipse CDT.

- **Webs**

Aug 2005 - dato, Volke GmbH, München, Germany.

This project saw the redesign and reimplementing of company's intranet and internet sites. The project remains active in maintenance mode.

Responsible for the design, implementation and maintenance of the software components involved in the respective website.

Advanced to system administrator for the company's network.

Implemented in Java, XML, XSLT, DHTML; used J2EE (Jonas), PostgreSQL, Apache Xalan, Eclipse.

- **GPIO Driver**

May 2005 – Jul 2005, Volke GmbH, München, Germany.

The development of a kernel-mode driver and a user-mode library for accessing and using the GPIO controller in the Winbond W83602R chip. This chip is connected to the SMBus on motherboards used in Volke's embedded hardware.

Responsible for the design, implementation and test of the driver and library software on Windows XP.

Implemented in C; used Windows WDM, Windows DDK, Eclipse CDT.

- **Human-machine interface methodics**

Jan 2005 – Apr 2005, BMW Research and Innovation Centre, München, Germany.

This project has seen the birth of a methodology for specification of the graphics elements in human-machine interfaces (codename Saimaa).

Co-work on the design and implementation of Saimaa methodology

Implemented in SVG, ECMAScript, Java; used Adobe SVGV, Apache Batik, Eclipse.

- **Vehicle Reservation**

Sep 2004 - Dec 2004, Volke GmbH, München, Germany.

This project is a part of a larger web-based suite used internally at BMW Research Centre. The reservation component is used for booking and tracking of test vehicles.

Responsible for the design and development of the reservation component.

Implemented in Java, XML, XSLT, DHTML; used J2EE (WebLogic), Oracle.

- **nitrobit group policy**

Apr 2004 - Aug 2004, analytiq consulting gmbh, Offenbach, Germany.

nitrobit group policy is an administrative tool which enables the application of the Windows group policies through Sabma and OpenLDAP servers.

Involved in various activities.

Implemented in C++; used OpenLDAP and Samba.

- **Automotive Collaboration**

Feb 2004 - Mar 2004, Cisco Systems GmbH, München, Germany.

Automotive Collaboration is a technological study for use of WiMAX in vehicles, done in cooperation with the automotive industry.

Responsible for the migration and integration in the web-based portal for the customer service. Implemented in C#, used ASP.NET, SharePoint, Cisco IP Telephony.

- **Domain & site setup**

Oct 2003 - Jan 2004, analytiq consulting gmbh, Offenbach, Germany.

Domain server setup for a newly founded company, website setup.

Responsible for the domain and user setup, security implementation, website design and implementation, site administration.

Acomplished using Linux, OpenSSL, X509, XML, XSLT, Apache, Sendmail.

- **CryptoEx Toolkit**

Aug 2003 - Sep 2003, analytIQ consulting gmbh in Offenbach, Germany.

The CryptoEx Toolkit is a script component for key management, encryption and digital signature with X509, S/MIME and OpenPGP.

Responsible for the design of the object model, development, test, documentation.

Implemented in C++; used COM+, ATL.

- **Risk Exposure Management System (REMS)**

Apr 2003 - Jul 2003, Dresdner Bank AG in Frankfurt, Germany.

REMS is a part of the internal risk management, aimed for complex risk analysis.

Responsible for the development and test of a web-based interface for generation of reports and charts which visualise risk analysis data.

Implemented in XML, XSL, SVG, Java; used Tomcat, Xerces, Xalan, FOP, Batik.

- **DigitalDentist**

Apr 2002 - Sep 2002, daenet GmbH in Frankfurt, Germany.

DigitalDentist is a management system for dentists and the dental laboratories.

Responsible for the design and implementation of the smartcard interface, co-work at the core development.

Smartcard interface implemented in C; used CT-API.

- **SADB / SalesAdmin**

Dec 2001 - Mar 2002, iesy Hessen GmbH & Co. KG in Mainz, Germany.

SADB is a database used by the cable network provider for the management of customers and products. SalesAdmin is a web-based frontend for SADB.

Responsible for the design and implementation of SADB and SalesAdmin.

Implemented in C#; used ASP.NET, Microsoft SQL server.

- **libxml**

Summer 2001 - dato, open source community.

Libxml is a general-purpose XML processing toolkit. It is used worldwide in many well-known project, such as GNOME desktop.

Responsible for the port to the Windows operating system.

Implemented in C.

- **e-Logistics**

Feb 2001 - Nov 2002, daenet GmbH in Frankfurt, Germany.

e-Logistics is a web-based B2B logistics portal.

Responsible for the design and implementation of the PDF generation components; co-work on the core development.

Implemented in C#; used ASP.NET, Oracle.

PDF components implemented in C.

- **FAQ Server**

Oct 2000 - Jan 2001, daenet GmbH in Frankfurt, Germany.

FAQ Server is a system for quality and information management.

Responsible for the design and implementation of the XML-based backend.

Implemented in C, C++; used libxml, COM.

- **WSP Preconfirmation System / EALP**

Mar 2000 - Sep 2001, WestLB Systems in Tokyo, Japan.

The WSP preconfirmation system is used in stock-trade for allocating purchased stocks across customer's accounts. EALP is a numerical algorithm which does the allocation math.

Responsible for the design, implementation and test of the WSP; design and implementation of EALP.

WSP implemented in C++; used DBLIB, Sybase.

EALP designed with Mathematica, implemented in C.

- **OPTOIN Device Driver**

Jan 2000 - Feb 2000, H.A.N.D. GmbH in Wiesbaden, Germany.

OPTOIN is an industrial interface hardware. It was used for connecting the computer and the radar in the company's flight-control and radar data analysis software.

Responsible for the design, implementation and test of a device driver for OPTOIN cards on Solaris.

Implemented in C; used Solaris DDI, DKI.

- **CryptoEx**

Sep 1995 - Dec 1999, Glück & Kanja GmbH in Offenbach, Germany.

CryptoEx is a program for encryption and digital signatures, at that time limited to electronic mail. Today it is a comprehensive security suite. CryptoEx became the title "Packaged Application of the Year" from Microsoft.

Responsible for the design and implementation of the CryptoEx technology, CryptoEngine concept, Outlook-plugin; the design of a smartcard-interface.

Implemented in C++; used PGP, S/MIME, MAPI, CryptoAPI, PC/SC.

- **Eco WM**

Mar 1995 - Sep 1996, University of Applied Sciences in Frankfurt, Germany.

Ecological Washing Machine was a university research project, done in cooperation with Whirlpool and Bauknecht. It was a base research on developing a laundry automat with a neuro-fuzzy controller which can optimise the usage of resources based on chemical analysis of the water during the washing process.

Responsible for the programming of the neuro-fuzzy controlling software.

Implemented in C++; used I-DEAS, MEAS 3, EDM 483I.