



GULP-ID 37675  
Name -  
Place of residence 821XX Olching Germany  
Year of birth 1963  
Computer experience since 1981  
Citizenship german  
Available as of 01 Oct 2014 at 100%, On-site 100% possible  
Profile created on 13 Apr 2002  
Profile last updated on 22 Aug 2014

#### Position:

Software development / Programming  
Consulting  
Coaching / Training  
Project management / Organisation / Coordination  
Professional main focus: Design, Development, Architecture of Distributed,  
Effective & Efficient Applications

Permanent position is currently not considered. Only contracting.

#### Education:

September 03, 2007: University Course Certificate  
"CSCW: Computer Supported Cooperative Work"  
Prof. Haake, University Hagen

September 03, 2007: University Course Certificate  
"CSCL: Computer Supported Cooperative Learning"  
Prof. Haake, University Hagen

April 04, 2006: Microsoft MCSD Title

April 04, 2006: Microsoft MCP Certification:  
"Designing and Implementing Databases with Microsoft® SQL Server 2000 Enterprise  
Edition"

February 15, 2006: Microsoft MCAD Title

February 13, 2006: Microsoft MCP Certification:  
"Developing XML Web Services and Server Components with Microsoft Visual C# .NET  
and  
the Microsoft .NET Framework"

December 2, 2005: Microsoft MCP Certification:  
"Developing and Implementing Web Applications with Microsoft Visual C# .NET and  
Microsoft Visual Studio .NET "

February 2, 2005: Microsoft MCP Certification:

"Analyzing Requirements and Defining Microsoft .NET Solution Architectures"

November 19, 2003: Microsoft MCP Certification:  
Developing and Implementing Windows-based Applications with Microsoft Visual C#  
.NET and Microsoft Visual Studio .NET.

Completed in 1988 a study of 'Wirtschaftsinformatik'  
( 'Computer Science and Economics' )  
in Karlsruhe with the title 'Dipl.-Inf. (FH)'.

Completed in 1982 a professional training as  
bank clerk at the 'Kreissparkasse Frankenberg'.

### Work site:

Austria  
Germany  
Switzerland

More locations: Europe - EU, Liechtenstein, Monaco, San Marino, Vatican, Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Congo (democratic Republic), Cote d'Ivoire, Djibouti, Egypt, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Libyan Arab Jamahiriya, Madagascar, Malawi, Mali, Mauritius, Mayotte, Morocco, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, Saint. Helena, Sao Tomé and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Zambia, Zimbabwe, Central America, China, Hong Kong, Japan, Korea (Democratic People's Republic of), Korea (Republic of), Macau, Taiwan, Bhutan, India, Maldives, Nepal, Sri Lanka, Bahrain, Israel, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates, North America, South America, Brunei, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar (Birma), Philipines, Singapore, Thailand, Vietnam

### Foreign languages:

English	very good, written and spoken.
German	mother-tongue
Spanish	good, written and spoken.

### Hardware:

Control and Regulation Systems	Bürettes, precission balances, CTI.
Measuring Devices	Controlled electronic precission balances and burettes.
Scanner	Imaging und Document Management, Fujitsu and HP, TWAIN and KOFAX.

### Operating systems:

MS-DOS	all versions
OS/2	all versions
Windows	all versions

## Programming languages:

Basic	very good, including VBA, VB Script and VB.NET
C#	extremely good. dump-debugging, reversing, MCP, MCAD, MCSD
C++	very good
C	very good
JavaScript	very good; including jQuery, OpenSeaDragon, Canvas, AJAX, mobile devices
Macro Languages	many
PL/SQL	good

VB.NET good, current experiences.  
XML, XML.NET very good, current experiences.  
D-HTML, HTML 5, very good, current project experiences.  
ASP.NET very good, including MVC. MCP.  
SQL, T-SQL very good, current experiences. Microsoft SQL Server. MCP.

## Database:

Access	Porting from Access to ADO.NET and C#
Adimens	employee of the DB development department
B-Tree	
BRetrieve	
ctree	
DMS	
Gupta, Centura	
Informix	Informix.NET
ISAM	various
MS SQL Server	very good, recent knowledge.
ODBC	
Oracle	10g and .NET
SQL	very good
xBase	wrote dentist accounting software with dBase.

Extensive knowledge in the areas of data modeling and performance measurement.  
Development of generic methods and ORM.

## Data communication:

Internet, Intranet	Detailed, deep, up-to-date knowledge.
SMTP	
TCP/IP	
Voice	Development of speech input and output, PC, IVR.
Windows Network	

Winsock

Development of complex communication applications:

- Development of complex Web applications with AJAX, JavaScript, JSON, et al.
- Comprehensive, deep knowledge of WCF, SOAP and Web Services.
- Development of Outbound Dialer for Siemens AG.
- Port of SAP Terminal software from OS/2 to 16-bit Windows
- Design and implementation of complex device communication patterns.

## Products/Standards/Experiences:

Project Roles:

- o Feasibility Studies
- o Analysis
- o Design
- o Requirements Specification.
- o Application and System Programming.
- o Purchase and Negotiations
- o Database and Code Migrations
- o Quality Management
- o Quality Assurance
- o Training + Organization
- o Product Specification
- o Software Documentation
- o User Documentation and Assistance
- o Test Planning, Execution and Rework

Methods:

- o Object Oriented Analysis, Design, Programming, UML.
- o Structured Programming, State Machines.
- o Database Design, ER, UML.
- o International, multilanguage product development.

Microsoft Standards:

- o .NET, WCF, C#, Visual Studio
- o Debugging and troubleshooting tools.
- o OLE Automation Client/Server, DDE, ODBC, MAPI.
- o Windows SDK (16/32 bit), ATL, MFC, WNet API.
- o Microsoft-Office programming, especially Word, Excel and Outlook.
- o Microsoft Graphical User Interface Design Guide.

Special Knowledge:

- o Internet WebServer Deployment, Design, Programming, Database Connection.  
(IIS, SQL, WWW, DHTML, JavaScript, Servlet, ASP, HTTP, CGI, TCP/IP, ActiveX, FTP, NFS)
- o Document Management, Scanning, TWAIN.
- o Visio, PaintShop, Designer and Paint.
- o CodeWright, ClearCase, VisualSourceSafe.
- o Siemens HiPath ProCenter SDK, SoftPhone.
- o Voice Control: Dragon NaturallySpeaking Professional, including programming.
- o IM, Skype, Microsoft Office Communicator. VOIP & SIP.

## Branches:

Science & Technology, Microscopy, HiTech, medical technology, call-center & CRM software, eProcurement, banking industry, software producers, industry, trade, IT, computing centers, IDP, SAP, telematics services, traffic engineering, telecommunications, sales, Internet service provider, shared-web-hosting.

## Projects:

Image Management System with Web-Portal, Micro Imaging, Munich

15.01.2012-30.09.2014

The software is for management and presentation of very large bitmap-images. (GB - TB).

The client is developed exclusively with Web technologies (HTML5, JavaScript, CSS). It contains very flexible navigation, presentation and modification of images and documents.

It is comfortable with Windows, OS-X, iOS (iPad, iPhone) WindowsPhone & Surface as well as Android.

On all these system, interactive drawing, including freehand, is possible.

Even on small screen format (smart phone, iPhone) the complete functionality is available.

The server is realized with ASP.NET, MVC, C# and T-SQL.

It implements Web pages and Web APIs for image and document management.

The system contains extensive security features (Users, Groups, Rights, Features), a very flexible data management (configurable document properties and input forms, configurable drill down on all document data and configurable tables and other presentations).

Besides the huge images, all other kinds of files are also supported (PDF, Excel, et al).

The software can be installed and run easily on Microsoft Azure, so quick and globally distributed deployments are possible.

In support of the main system, an upload utility (for very large files) and an installer (for the server application) were developed.

All of these was developed by myself, including the architecture, database structure, software design, graphic design, development and documentation.

It was realized in close cooperation with the product management.

Technology:

- \* Microsoft Visual Studio 2010-2013, ASP.NET, MVC 4.
- \* jQuery, jQuery.Mobile, DataTable, OpenSeaDragon, Fabric.js, u.a.
- \* Microsoft SQL Server 2008-2014, Microsoft Team Foundation Server (TFS)
- \* DHTML, CSS, Javascript, AJAX, inkl. single-page technology.
- \* Reflector, Fiddler, Cobasoft Generator

Lead Developer, Web Portal, ERT.com, Medical Technology, Wuerzburg

01.11.2010-16.12.2011

- \* Lead Developer Role
- \* Creating Functional Specification (FS), Communication with Product Management.
- \* Maintaining specifications and UML diagrams with Enterprise Architect.
- \* Creating UI wireframes and prototypes with Microsoft SketchFlow (WPF).
- \* Using TFS to manage the project: Build, RTM, Branch, Merge, Version.
- \* Involvement in User Interface and Feature Design.
- \* Troubleshooting and Debugging, Performance Analysis.

Technologies:

- \* Sparx Enterprise Architect 8.
- \* Microsoft Visual Studio 2008 Pro and 2010 Premium with TFS 2010.
- \* Microsoft Expression 4 Ultimate, Blend 4 with SketchFlow.
- \* Microsoft SQL Server 2005 and 2008.
- \* Microsoft Team Foundation Server 2010.
- \* Oracle 11g Client and SQL Developer.
- \* Quest Toad for Oracle.
- \* LLBLGEN.
- \* ASP.NET 3.5 and 4.0 with AJAX and DevExpress tools.
- \* JavaScript, jQuery, Internet Explorer, Firefox. F12 Tools.
- \* Microsoft .Net Framework 3.5 and 4.0.

Troubleshooting and Development, Bosch Security System, Industry, Munich

03.05.2010-29.10.2010

- \* Troubleshooting and Debugging, Performance Analysis, WCF REST Web Services.
- \* Presentation and Coaching, Analysis of User Authentication and Security.
- \* COM and RCW Debugging, Setting up Symbol Server with PowerScript and PowerShell.
- \* C#, C++, C++/CLI, Visual Studio 2010, 2008, 2005, Active Directory.
- \* Team Foundation Server (TFS), Cruise Control, Wiki, Spring, log4net.
- \* Agile Development, SCRUM, UML.
- \* Video Management, GUI, Networking, Database, Graphics.

Coaching and Troubleshooting ASP.NET and SQL Application, AZ-Software, Munich

01.04.2010

- \* Coaching related to data access with LINQ2SQL.

- \* Troubleshooting Database Problems, SQL Server 2008.
- \* Coaching related to ASP.NET GUI, development and architecture.

Trainer for 3-day WPF course, HILF GmbH, München  
21.04.2010-24.04.2010

- \* All aspects of WPF
- \* Accessibility, Animations, Annotations, Architecture, Data binding, Deployment
- \* Documents, Effects, Expression Design, Imaging, Internet Explorer, Interoperability
- \* Layout, Media Services, Templates, Text, Tools, XAML.

Technologies:

- \* Teaching, Presentation, Coaching, Architecture.

Shared Web Hosting, l&l Internet AG, Karlsruhe  
13.01.2010-05.01.2010

- \* Evaluation of security and performance aspects of IIS 7.5 features, esp. Feature Delegation.
- \* Internet Information Server configuration, IIS extensibility.
- \* Development of test procedures and specifications.
- \* Evaluation of LINQ options: Plain, expression trees, Linq2SQL, deferred execution.
- \* LINQ-to-SQL security settings, tests, documentation.
- \* Modification of web server security options.
- \* Planning, implementation, management of IIS options, esp. Security-related options.

\* Wiki Documentation (Twiki).

\* Subversion (SVN) with Tortoise.

Technologies:

- \* Microsoft IIS 7.5 (Internet Information Server)
- \* Programming and testing Authentication and Authorization,
- \* Creating web-sites, application-pools, applications.
- \* Configuring various options and working directly with configuration files.
- \* Microsoft Windows Server 2008 R2.
- \* Hyper-V and VM administration.
- \* Microsoft SQL Server 2008, Database setup, performance tests, access with LINQ-to-SQL.
- \* Visual Studio 2008, C#, ASP.NET 3.5, ADO.NET, LINQ, LINQ-to-SQL.
- \* Development of tests. Code-Access-Security, ACL Security, ICACLS.
- \* PowerShell, IIS AdminPak, ASP, HTML, CSS, XPATH.
- \* Development of IIS administration and setup scripts.
- \* Programming Active-Directory.
- \* Development of XML-manipulating scripts.

WPF-based Shop-Application, Consulting Company, Bavaria  
04.12.2009-10.01.2010.

- \* Shop prototype with graphical product presentation.

Technologies:

- \* Visual Studio 10, Microsoft.NET 4.0, C#.NET, XAML, WPF, Silverlight.
- \* Expression Blend 2, Expression Design 2, Expression Web 2.
- \* SQL, SQL-Server 2008, ADO.NET, LINQ, Azure, SaaS, IIS.

Application Integration, Schleupen AG, North Rhine-Westphalia.  
21.09.2009-03.12.2009.

- \* Integration of existing C++ application into Microsoft.net C#.
- \* Complex window handling.
- \* High-speed interprocess communication.
- \* Coaching regarding integration and migration.

Technologies:

- \* Microsoft.net, C#.NET, C++, C++/CLI.
- \* Native API, RPC, LRPC, LPC, WinDDK.
- \* StyleCop, FxCop. Citrix.

Website-Development, Consulting Company, Bavaria  
01.06.2009-12.12.2010

- \* Advancement of an existing web site.
- \* Accessible, economic, efficient, compact.
- \* Development of Web forms.
- \* Development of backend server with ASP.NET.
- \* Selection of appropriate providers. Rollout. Tests.
- \* Graphic design, graphics, user interface design.

\* Selection and purchasing of royalty-free graphics.

Technologies:

- \* Microsoft.net, C#.NET, ASP.NET, Visual SourceSafe, IIS.
- \* HTML, CSS, Javascript.
- \* PaintShop, scanner, PowerPoint.
- \* Recherche for graphics, clipart and icons.

Architectural Consulting, SCHULZ Systemtechnik GmbH, Lower Saxony, Germany.

25.05.2009 bis 31.05.2009

\* Architectural Consulting regarding development of new product.

Technologies:

- \* Microsoft Technologies, ADO.NET, ASP.NET, C#, IIS.

Software Development Process Improvement, AIS GmbH, Dresden

19.12.2008 bis 31.05.2009

\* Debugging, Troubleshooting

\* Analysis of access violations, heap corruption and memory overwrites.

\* Analysis of multithreading related synchronization and access problems.

\* Performance Optimization

\* Performance analysis on production virtual-machine systems. (vmware)

\* Implementation suggestions for performance improvement.

\* Evaluation of Tools for Process Improvement

\* Evaluation of various coding styles, for C++ and C#.

\* Evaluation of source code formatting tools, for C++ and C#.

\* Evaluation of static analysis tools, for C++ and C#.

\* Evaluation of Documentation tools, for C++ and C#.

\* Presentation and coaching regarding software development process improvement

\* Presentation and workshop regarding process improvement.

Technologies:

\* Advanced Debugging Utilities:

\* CDB, WinDbg, Fiddler, WireShark, Network Monitor.

\* ETW - Event Tracing For Windows.

\* Performance Analysis Utilities:

\* Microsoft Visual Studio 2008 performance analysis tools.

\* Intel vTune 3.2

\* Microsoft Windows Performance Tools (WPT, XPERF, LOGMAN)

\* Microsoft KERNRATE

\* Microsoft Visual Studio.net 2008, C++, C# 3.0, JScript, C++/CLI.

\* Microsoft Office 2007: PowerPoint, Excel, Word, Outlook.

\* Documentation and Formatting Tools:

\* Doxygen, Doc-O-Matic, PolyStyle, StyleManager, Sandcastle, Robodoc, Doc-To-Help.

\* Static Analysis:

\* Gimpel PC-lint, GrammaTech CodeSonar, Coverity Integrity.

\* Klocwork Insight, Mathworks Polyspace.

\* Microsoft PRefast, FxCop, StyleCop.

Coaching Microsoft Office Word 2007 Integration, Software Producer, Bavaria

22.02.2009-27.2.2009

\* Consulting regarding Microsoft Office Word 2007 Integration.

\* Mail merge, macros, integration with Microsoft.NET.

Technologies:

- \* Microsoft.net, C#.NET, Microsofts Office Word 2007.

Software for presence control, University of Applied Sciences, Munich, Bavaria

19.02.2009-18.3.2009

\* Development of a concept for Software for presence control.

\* Selection and purchasing of barcode scanner.

\* Development of this software with HTML, css and Javascript.

\* Installation and user coaching.

Technologies:

- \* Barcode-Scanner. HTML, Javascript, css.

Premier Support, Distributed Services, Microsoft GTSC EMEA DSW

01.12.2007-31.12.2008

\* Advanced Developer Support

\* Communication with customers throughout Europe.

\* Cooperation with some of the best people in the field.

\* Working for banks, insurance companies and software producers.

\* Using latest technologies to solve customer problems.

\* Getting deeply involved in to the Web Services infrastructure.

- \* Reading and interpreting standard documents, like W3.ORG & OASIS.
- \* Answering strategic questions.
- \* Giving design and architectural advice.
- \* Solving performance problems.
- \* Troubleshooting on a low level.
- \* Analyzing dumps and network monitor traces.
- \* Stating questions to the product department and cooperating with them.

Technologies:

- \* WCF, Windows Communication Foundation.
- \* Microsoft.NET Web Services, WebService interoperability.
- \* XML, XSD, WSDL, DISCO, Certificates, Kerberos.
- \* Web-Standards: SAML, WS-Security, WS-Secure-Conversation, WS-Trust.
- \* Service-Oriented Architecture, SOA.
- \* Microsoft Visual Studio.net 2008, C# 3.0, VB.net, TeamSystem.
- \* DCOM, COM, Enterprise Services. WSE Version 2.0 and 3.0.
- \* Advanced Debugging Utilities: CDB, WinDbg, Fiddler, WireShark, Network Monitor .
- \* Support utilities and information databases.
- \* Using LiveMeeting, Communicator & EasyAssist.
- \* ASP.NET 1.1, ASP.NET 2.0, .net Framework, Remoting, IIS, ISA Server.
- \* Interoperability: VB6, COM, DCOM, DLLs, PInvoke.

Engine Trend Monitoring, MTU Aero Engines GmbH, München  
01.12.2006-30.11.2007

Engine Trend Monitoring

- \* Improvement of an existing application .
- \* Porting of this application to Visual Studio 2005.
- \* Workshop about Visual Studio 2005.

Life Consumption Monitoring

- \* Design of a new application for engine life consumption monitoring.
- \* Architecture, coordination, GUI design
- \* Requirements specification, prototypes, feasibility studies.

Technologies

- \* Reengineering, Refactoring, Porting.
- \* Windows Forms 2.0, GUI Design.
- \* Microsoft Visual Studio 2003, .Net Framework 1.1.
- \* Microsoft Visual Studio 2005, .Net Framework 2.0.
- \* Microsoft Office 2003.
- \* Programming Microsoft Outlook 2003.
- \* Oracle 9.2.0.4, trigger, stored procedures, table valued functions.
- \* Embarcadero dbArtisan. Citrix.
- \* Merant Dimensions 2.9.3.2
- \* FarPoint FpSpread For Windows Forms 2.0, .net (spreadsheet control)
- \* IOCOMP WFPlot v3SP2 (graphics and plotting control)
- \* Microsoft.net Data Access (ADO.NET), SQL
- \* Custom database access interface.
- \* BackgroundWorker, XmlReader, System.Configuration, Snippet design.
- \* Managing application settings. ADS (Alternative Data Streams).
- \* IMAP e-mail management protocol.

Second-Level Support, Microsoft GmbH, Munich

31.07.2006-30.11.2006

- \* Reactive Support Resolve complex technical problems involving Microsoft Visual Studio.
- \* Handle support issues, utilizing companywide resources where appropriate.
- \* Build action plans and communicate to the relevant Microsoft and customer contacts.
- \* Use appropriate debugging tools to analyze problems and develop solutions to meet customer needs.
- \* Proactive Support Code review and performance analysis.
- \* Collaboration Provide technical mentoring to other GTSC engineers.
- \* Collaborate with peers within the EMEA team.
- \* Readiness Keep up-to-date on new MicrosoftTechnologies.
- \* International Communication Handling cases in English, German and Spanish.
- \* Communicating with colleagues all over Europe.

Technologies:

- \* Microsoft Visual Studio.net 2005, C# 2.0, VB.net.
- \* Microsoft.NET Web Services, WebService interoperability.
- \* Service-Oriented Architecture, SOA.
- \* DCOM, COM, Enterprise Services.
- \* Advanced Debugging Utilities, WinDbg, Fiddler.



- \* XML, WSDL, DISCO, Certificates, Kerberos.
- \* Support utilities and information databases.
- \* Using LiveMeeting, Communicator and EasyAssist.
- \* ASP.NET 1.1, ASP.NET 2.0, .net Framework, Remoting, IIS, ISA Server.
- \* Interoperability: VB6, COM, DCOM, DLLs, PInvoke.

SAP Connectivity Web Services, Companio, Ulm  
01.07.2006-30.07.2006.

\* Design and development of web service and stand-alone utility which facilitate the exchange of calendar and contact information between Microsoft Outlook and the Companio C5 system.

Technologies:

- \* RFC 2426 - vCard - The Electronic Business Card - v2.1.
- \* RFC 2446 - iCalendar - The Electronic Calendaring and Scheduling Exchange Format - v1.0.
- \* Outlook integration.
- \* Web services and ASP.NET 2.0, IIS.
- \* Microsoft Visual Studio 2005.

Design of Company Letterhead, Consulting Company, Bavaria  
14.06.2006-30.06.2006

- \* Design of folder and brochure.
- \* Development of stationery and business cards.
- \* Graphics design, graphics.
- \* Selection and purchasing of royalty-free graphics.
- \* Selection of a print shop and project management for the production.

Technologies:

- \* Microsoft Office.
- \* HTML, css, Javascript.
- \* PaintShop, Scanner, PowerPoint.
- \* Recherchen nach Grafiken, ClipArt and Icons.

In-house Application, ADAC, Munich.  
21.02.2006-13.06.2006.

- \* Development of parts of an in-house Application. Using business objects and a composite desktop to build a Patient Data overview screen.
- \* Giving user interface guidelines and technology advice to customer personnel.

Technologies:

- \* Microsoft Visual Studio.NET 2005, C# 2.0, generics.
- \* Microsoft.NET Web Services, SOA, SSL, https, Web Service Security, IIS.
- \* Microsoft SQL Server 2005, Stored Procedures, XML.
- \* XML, XSD, Business Objects, Object Relational Mapping, Composite Desktop.
- \* Generator Technology. Xceed Grid. Remoting.

Dialer Server Application for ProCenter, Siemens COM eCRM, Frankfurt/M.  
01.04.2004-13.02.2006.

- \* Development of complex dialer server application.
- \* Starting with a requirement specification the fine specification and software design were developed, using UML for the data modeling.
- \* The requirements were refined by personal consultations and phone conferences, resulting in change protocols.
- \* Prototypes and ever more detailed models were developed and presented to the customer.

\* In my responsibility also was the technical coordination of team of up to four developers and preparation and coordination of the documentation.

Technologies:

- \* Visual Studio.NET 2003, Windows Forms, C#, CSharp, ADO.NET, SQL, Microsoft SQL Server.
- \* XML, XSD, UML, MDA, Oracle 10g, Oracle .NET Interface, IBM Informix .NET Interface.
- \* IIS, Gemini Issue Tracking, HiPath ProCenter Administration, Visual SourceSafe.
- \* Remoting, Socket Interfaces, Multi-Threaded Programming.
- \* CreaLog CreaVoice Server, Softphone, Call-Center, VMware.

Code- and Schema Generator for .NET, Siemens COM eCRM, Frankfurt/M.  
01.4.2004-13.02.2006.

- \* Based on the meta data table, the following structures will be generated:
  - database schema; all tables, indexes and constraints.
  - XML schema (XSD); all tables, indexes and constraints.
  - graphical representation of the data model.

- documentation of the data structures.
- \* Besides that substantial C# code can be generated which wraps and manages for data structures this code consists of based classes, thread-safe data classes and thread-safe collections of based classes. The code contains generated SQL statements to insert, change, delete or query the database, taking into account the primary keys, constraints and timestamps.
- \* Optionally the Generator can generate SQL code and wrapper classes for ADO.NET and .NET DataSets.
- \* The basic approach of the generator is similar to the Model Driven Architecture (MDA); but without its disadvantages especially in combination with complex algorithms.

Technologies:

- \* Visual C# .NET 2003, Windows Forms, C#, Csharp, ADO.NET, SQL, Microsoft SQL Server, XML, XSD, UML, MDA, Oracle 10g.

CRM Sales Support System with .NET, Siemens COM eCRM, Frankfurt/M. and Cologne  
08.12.2003-13.02.2006.

- \* Task: Port of a Microsoft Access Application. Design and implementation of the new system.
- \* Reverse-Engineering of application and business logic from the existing, undocumented application and its databases.
- \* Design of the new database schema.
- \* Design of an SQL, C# and XSD generator, which reads a compact table description and generates large and complex wrapper and access classes as well as XSD data description from it. Implementation with C#.
- \* Design and implementation of a generic authentication process, based on roles and reusable algorithms.
- \* Development of a cryptographic solution for the login.
- \* Development of User Controls.
- \* Integration of reporting by using Crystal Reports .NET.
- \* Development of a reusable table editor.
- \* Integration of email workflow features.
- \* Substantial experience with ADO.NET and Data Binding.

Technologies:

- \* Visual C# .NET 2003, Windows Forms, C#, CSharp, ADO.NET, Crystal Reports.
- \* Reverse-Engineering, Data Analysis, Workflow Analysis.

Softphone Anpassungen, Siemens COM eCRM, Frankfurt/M. and Cologne  
17.11.2003-7.12.2003.

- \* Task: Integration of multiple Softphone versions. Integration of existing and new requirements.

Technologies:

- \* Visual Basic 6.0, HiPath ProCenter Software.
- \* Reverse-Engineering.

Website-Development, Consulting Company, Bavaria  
03.11.2003-14.11.2003

- \* Advancement of an existing web site.
- \* Accessible, economic, efficient, compact.
- \* Selection of appropriate providers. Rollout. Tests.
- \* Graphic design, graphics, user interface design.

Technologies:

- \* Microsoft.net, Visual SourceSafe, IIS.
- \* HTML, CSS, Javascript.
- \* PaintShop, scanner, PowerPoint.
- \* Recherche for graphics, clipart and icons.

XML based generic test environment, Siemens Med, Erlangen  
05.05.2003-31.10.2003.

- \* Task: Design and implementation of a demanding generic test environment for regression testing.
- \* Requirements analysis with UML.
- \* XML datastructure design with DTD and XSD.
- \* Design of an encompassing integrated runtime environment including tracing-, logging-, exception handling and assertions.
- \* Development of XML reading and verifying modules.
- \* Development of an XML based programming language for control and analysis of testruns across process and host computer boundaries.
- \* Realization of the designs with Visual C++ and STL.

- \* Dynamic configuration and runtime control of SYNGO components. Control of the Component Manager with RTI.
- \* Distribution of parallel test software on different processes, components and hosts.

Technologies:

- \* Visual C++ .NET 2003, MFC, STL, UML, Rational Rose, DTD, XSD, XPath, XML Spy, MSXML, DOM, C#, Csharp, Perl, Rational ClearCase, ClearCase API.
- \* Prozessanalyse, XML Design, XML Parsing, SYNGO Unit-Testing, Requirements-Tracking.

CRM System for insurance company, Call-Center, Munich

29.07.2002-31.3.2003.

- \* Reengineering, redesign and enhancement of an existing CRM application.
- \* Technical and organizational refinement of the user interface. Design of ergonomic and standard complying user interfaces.
- \* Design and realization of a source code style guide. Automatic formatting of all sources.
- \* Consulting and coaching in the areas of debugging and development with C++, ATL and MFC.
- \* Analysis of the existing Computer Telephony Integration. Design of a new CTI with UML and Visio. Design of an interactive, graphical user interface. Implementation of the new CTI with Genesys SDK und ASPECT ACT.

Know-How:

- \* Visual C++, MFC, VBA, STL, ATL, UML, Rational Rose, Oracle, Oracle DBA Studio, Lotus Notes, PVCS, Genesys, Aspect ACT, CRM, CTI, UML, Visio, Call Center.
- \* Process analysis, reengineering, refactoring, GUI design, usability studies, usability design.

International internet sales software, Siemens AG I&S ITS, Munich.

15.04.2002-20.06.2002.

- \* Porting of an existing Internet application from an ActiveX and XML based solution to pure HTML and JavaScript.
- \* Substantial performance improvements on client and server.
- \* Design and implementation of a base system for the server, including an HTML pre-processor and solid error handling.
- \* Implementation of complex JavaScript and DHTML based forms for the Internet browser client GUI.
- \* Infrastructure: Microsoft IIS (Internet Information Server) and Windows 2000 Server, MTS, COM+.
- \* Development environment: Visual Interdev, Visual Source Safe, Terminal Server and CodeWright.

Know-How:

- \* DHTML, JavaScript, C++, VisualBasic, MTS, COM+, Oracle, TOAD, IIS.

CONCERT-NT - Urban Traffic Control, Siemens AG - I&S ITS, Munich.

April 2000-April 2002

- \* Development of an ActiveX control to display traffic related messages within the Internet Explorer.
- \* Development of a base system (a toolkit and library) for the whole team, to make implementation of similar tasks easier and faster.
- \* Development of an automatic e-mail and fax distribution system for traffic related messages.
- \* The messages of this system were generated with Microsoft Word, using Automation. They could contain mail merge elements depending on database conditions, triggers and user interaction.
- \* Some document types were generated by transforming SOAP based XML messages with XSLT into HTML and reading this into Microsoft Word.
- \* These messages could be delivered as email by SMTP, Simple MAPI or MAPI. FAX transmission was made possible with Microsoft FAX Server or the Fritz!Fax Software. And a Videotext (VTX) interface with FTP transmission was also implemented.
- \* As a sideline I tracked and solved tenacious bugs in the whole system by using Power-Debugging methods.
- \* Another task was the development of a generic preview and printing system for StdPicture based images.
- \* Using Java, I developed Servlets which display traffic situations graphically. These did run on Tomcat / Catalina, and contained SOAP connections, multiple threads and live graphics. The data model was build with XML DTD and JAVA Data Binding (JAXB).

Technologies:

\* Java Servlet, Visual C++, MFC, XML, XSL, HTML, SOAP, VBA, SMTP, STL, ATL, UML, Visual Basic, Servlet, ObjectManager, Outlook, Office 2000, Microsoft Word, Windows NT 2000, IIS, Rational ClearCase. Teamwork.

POET-EA - Electronic Document Management, HypoVereinsbank AG, Munich.

April 1997-March 2000

\* My task was the development of an Electronic Document Management system for the real estate department of a big bank. This system integrated scanned documents, existing office documents (WinWord, Excel...) with customer and account information.

\* We used WANG and KOFAX imaging software and professional document scanners from Fujitsu and HP.

\* Initially I developed requirements and design in close contact with our customers; the EDP and specialist departments. We developed specifications and prototypes.

\* We mastered the year 2000 conversion and the fusion with Hypo Bank.

\* My main task were the development of the user interface, the coordination of the team programmers, the development and assignment of their work packages, some part of the version management and some installation and rollout coordination.

\* The project used Documentum and IBM VisualInfo as document storage and Microsoft SQL Server as database.

\* Microsoft Outlook and Exchange served were used for the workflow implementation.

\* I developed a business objects design which served us very well and which survived some very encompassing restructurings. It proved as indispensable for successful maintenance of the software.

Technologies:

\* Visual Basic, Visual C++, Outlook, Office 97, Exchange, SQL-Server, Documentum, Scanning, Imaging, Windows NT 4, Visual Source Safe, IIS.

\* Teamwork, Coordination, Motivation.

SHRE - Syntax Highlighting Rich text Editor, Josef Keller Verlag, Starnberg

1997 A parser controlled module which implements dynamic highlighting of keywords and special phrases during user input. Clean C++ class design. Replaceable parser and control modules.

KDBL -- ActiveX Database Login Control, Josef Keller Verlag, Starnberg

1997

\* A Customer specific Login Dialog, controllable via Visual Basic. Dynamic instantiation of DAO objects. Configurable hook for ActiveX objects.

3DE - Graphical Configuration Tool, INTRA-SYS GmbH, Hannover

1996-1997

An interactive and graphical editor for a proprietary data structure. It is written with VisualC++ 4.0 and is optically very appealing and easy to handle. It is like an electronic, living handbook that through visualization reduces the amount of details that a user must remember. Toolbars and ToolTips are used as well as PropertySheets, PropertyPages and an elaborate TreeView.

IW3 - CGI Web-Host Connection, INTRA-SYS GmbH, Hannover

1995-1996

Is a WWW connectivity toolkit that can connect VisualBasic and Host applications with users in the Net. It allows the interaction of self-developed applications with normal WWW browsers. These applications can use the full power of VisualBasic to implement custom server functionality on an NT host and, as an options, connect users to legacy host applications on a Siemens or IBM host. A build-in HTML generator generates new forms on the fly, using IIS and CGI.

Picasso, VB Application Generator, INTRA-SYS GmbH, Hannover

1995-1996

A graphical design and code generator tool that produces complete VisualBasic applications. It contains a screen painter, a form editor and a VB code generator. The generated source will give legacy host applications a new user interface and the source are immediately ready-to-run.

PrimaVista - Presentation Software, Bicom GmbH, Hannover

1993-1995

A complete drawing and presentation application, written with the Microsoft Foundation Classes. It contains pen support including hand-writing recognition, a WYSIWYG text editor, extensive bitmap support as well as uncovering, annotation and presentation support.

WDPA - Image measuring and DOS control, AICON GmbH, Braunschweig

1994-1995

An application for picture processing. It uses some high-tech tricks to completely control a legacy, DOS-based picture processing application and enable it to cope with 18 MB large bitmap files. The DOS program is controlled completely and all its memory could be read and written to. The pictures were taken from disk or a PhotoCD. Later on I helped to build a Windows-only version.

PrintForm - Print Formatting, Cobasoft GmbH, Braunschweig

1994

\* A modular Reporting-System for C, C++, Visual Basic and other languages. Preview and print support.

\* Distribution of this software as shareware.

\* Marketing and sales.

Technologies:

\* Visual C++, Visual Basic, MFC, Windows NT 4.

VPC33 - Viskosimetrie-PC, Schott Geräte GmbH, Hofheim

1992-1993

A large windows program, written for and sold by Schott Geräte, Hofheim. It reacts on the inputs of a balance, controls up to 5 burettes and prints 3 protocols on 2 printers. All this is accomplished without any multi-threading support from the OS, runs in parallel and is so secure that even a power glitch would delete not more than the most recent, incomplete data record.

WindowsTools - Versions 1.0 and 2.0, Gedys GmbH, Braunschweig

1989, 1990, 1992.

The WindowsTools are a collection of utilities for the Windows user. They were invented and marketed by GEDYS GmbH in Braunschweig. Some of the larger applications were written by me, including some parts of the newer Windows Tools-FileManagement. And I ported them to OS/2.

Porting of SAP Terminal from OS/2 to Windows, SAP, Walldorf

1991-1992

The terminal application of SAP in Walldorf was ported from OS/2 and Motif to Windows. I worked on the R2 and R3 revisions. This was a sophisticated job because compared with OS/2, Windows 3.x was a very limiting environment.

Hypercard Clone - Port from OS/2, Format AG, Cologne

1990

\* Porting of an Hypercard clone from OS/2 and Macintosh to Windows.

Technologies:

\* C, Windows 2.x, Windows 3.x, OS/2.

Import and export filters for StarWriter; Start Division; Lüneburg and Dürscheid

1989

I wrote import and export filters for Star-Division. This involved reading and writing the internal, binary format of MS-Word, including stylesheets as well as reading and writing StarWriter, Lotus 1-2-3 and WordStar documents. It was (in 1989) my first large C++ project.

Registration as Freelancer, Dürscheid

1.1.1989

\* Registration as a freelancer in Dürscheid near Cologne.

PROMOD System Development, GEI AG, Aachen

17.07.1988-31.01.1989

\* Working as employee in the CASE department, I learned to program and use the Promod CASE Tool.

\* During this time I got trained in CASE methodologies.

Technologies:

\* C, C++, VAX-VMS, SQL Datenbank, MS-Chart.

IPDMS - Integrated Patient Data Management System, ADImens GmbH, Karlsruhe

September 1986-June 1988

An integrated patient data management system, using an MS-Network and the ADImens database, written in C. It was my first big project, it started during my study and I was responsible for technical implementation and coordinated 3 further

programmers. My thesis was based on the central dialog management of this application. As a technical project manager I was responsible for much of the software architecture and the good part of the implementation.

ADImens Datenbank - Developer in the database team, ADImens GmbH, Karlsruhe  
09.1986-30.06.1988

\* Working on the ADImens Datenbank. Development of filters and a program generator for data structures. Analysis of the internal production process with OOA/OOD DeMarco method.

Technologies:

\* C, Adimens Datenbank, MS-NET, OOA/OOD.

Study: Wirtschaftsinformatik, Fachhochschule Karlsruhe, Karlsruhe  
31.10.1983-12.09.1988

\* Pascal-Tutor and IBM VM/CMS.

\* Development of Pascal/COBOL Interface.

\* Besides the study: Development of a dentists- billing system with dBase and printing of complex forms.

Technologies:

\* Pascal, COBOL, VM/CMS, PANEL, dBase, EXEC, REXX.

Hobby

1981-1986

\* Software development with BASIC and Z80 assembly language.

\* Giving assembly development courses for pupils.

## References:

Project Lead Developer, Web Portal, Medical Technology, 11/10 to date

Reference from Senior Product Manager, eResearchTechnology GmbH, from 13.12.11

*"The consultant worked closely with program management and stakeholders. He developed user interface sketches, prototypes and played an important part in the development of the new site user qualification process. One of his mayor tasks was the creation and maintainment of the functional specification with Sparx Enterprise Architect. He worked very precisely and brought new ideas to the process. We are very satisfied with his work and enjoyed working with him. We would gladly work with him again."*

Projekt Engine Trend Monitoring, 12/06 - 11/07

Referenz durch Projektleiter, MTU Aero Engines GmbH, vom 12.12.08

*"[...] Den Consultant können wir jederzeit weiter empfehlen, er hat stets sehr schnell und effektiv gearbeitet, die Entwicklungswerkzeuge sehr gut beherrscht und auf Grund seiner Erfahrung und seines Überblicks für alle aufgetretenen Probleme in kurzer Zeit erfolgreich und eigenständig eine Lösung gefunden. Hervorzuheben sind seine .Net- und SQL-Detailkenntnisse."*

Projekt Generic Test Environment, C++, XML, syngo, from 05/03 - 10/03

Referenz durch Teamleiter Datenbanken, Siemens AG, Medical Solutions from 29.10.03

*"Der Berater entwickelte die Architektur und Feinspezifikation eines generischen Test Frameworks. Dieses ermöglicht die Zusammenstellung von Tests aus Software-Bausteinen sowie deren Ausführung verteilt auf Prozesse, Threads und Rechner. Der Test-Workflow wird durch ein parametrisierbares XML Script gesteuert. Die Architektur fördert die Aufteilung von Tests in Bausteine und deren Wiederverwendung. Der Berater entwickelte selbstständig Konzepte zum Tracing, Logging und Exception-Handling sowie eine allgemeine Schnittstelle für Integration und Erstellung der Software- Bausteine. Das Ergebnis seiner Tätigkeiten ist ein vollständiges und integriertes Produkt, mit dem wir außerordentlich zufrieden sind. Der Berater hat sich sehr schnell in die Teamstruktur eingefunden. Die Planung der*

eigenen Arbeitspakete erfolgte sehr zuverlässig und war jederzeit äußerst transparent."

Project Generic Test Environment, C++, XML, syngo from 05/03 - 10/03  
Reference from Team Leader Databases, Siemens AG, Medical Solutions from 29.1.03

"The consultant developed the architecture and detailed specification of a generic test framework. This allows the configuration of tests from software building blocks and their distributed on multiple processes, threads and host computers. The test workflow is being controlled by a configurable XML script. The architecture encourages the segmentation of tests into building blocks and their reuse. The consultant independently developed concepts for tracing, logging and exception handling as well as a generical interface for the creation and integration of the software building blocks. The result of his activities is a complete and integrated product with which we are extraordinarily content. The Consultant integrated himself quickly into the team. The planning of his work packages was very reliable and at any time extremely transparent."

Projekt HST - Internet Vertriebssoftware -, 04/02 - 06/02  
Referenz durch Abteilungsleiter Dr. Keil Informationstechnik GmbH & Co. KG vom 23.03.03

"Der Berater entwickelte in unserem Team mit an der Konzeption und Implementierung einer effizienten, ergonomischen und stabilen Web-Commerce Lösung. Sein mit großem persönlichen Einsatz in kurzer Zeit erstellter HTML Preprozessor ermöglichte dem Team eine schnelle Umsetzung der Server-seitigen Business Logic. Er entwickelte ein Javascript basierendes Konzept zur sicheren und schnellen Abwicklung und Prüfung der Benutzer- Interaktion im Browser. Wir wünschen ihm für seine Zukunft das Beste und würden ihn in weiteren Projekten gern wieder einsetzen."

Projekt CONCERT-NT - Telematik, 04/00 - 05/02  
Referenz durch Projektleiter, internat. Elektronik Konzern, vom 12.02.03

"Der Mitarbeiter war in der Zeit vom 01.04.2000 bis zum 15.05.2002 als Consultant bei unserem Unternehmen beschäftigt. In dieser Zeit arbeitete der Consultant im Bereich der Telematik an der Entwicklung einer Verkehrsmanagementzentrale. Der Consultant war zuerst verantwortlich für die Listenansichten des Meldungsmanagements. Entsprechend seinen Anregungen entwickelte er generische Komponenten zur Visualisierung und zum Ausdruck von Objekten. Diese wurden mehrfach wieder verwendet. Die Implementierung erfolgte als ActiveX Controls innerhalb des Microsoft Internet Explorers. Er löste dabei selbstständig komplexe technische Probleme. Als Programmiersprache wurde C++ eingesetzt, auf Basis der MFC und ATL Bibliotheken. Nach erfolgreicher Implementierung dieser Komponenten wurde der Consultant damit beauftragt, Teile des Medienmanagements umzusetzen. Diese Komponente erforderte die Ansteuerung von Microsoft Word zum Füllen verschiedener Formularbestandteile abhängig von beliebigen Systemzuständen. Die erzeugten Formulare mussten mittels E-Mail, FAX oder Videotext an beliebige Empfänger versendet werden. Der Consultant realisierte die Anbindung an Microsoft Word, den FAX-Versand sowie die E-Mail-Schnittstelle. Zur Realisierung der FAX Schnittstelle wurde zunächst die FAX Queue von Microsoft Windows verwendet, welche sich jedoch im professionellen Einsatz als problematisch erwies. Aus diesem Grunde kam hier die Ansteuerung von FritzFax zum Einsatz, welche von dem Consultant vorgeschlagen und realisiert wurde. Diese Umstellung erfolgte kurzfristig und unter sehr großem Einsatz. Auch bei der E-Mail Schnittstelle wurde zunächst auf die Verwendung der simple und extended MAPI von Microsoft gesetzt. Um Probleme durch neue Sicherheitsfeatures von Microsoft zu umgehen, wurde an dieser Stelle auf SMTP umgestellt. Außerdem implementierte der Consultant eine automatische Umwandlung von XML Daten in Word Dokumente mit Hilfe von XSLT und HTML. Die Komponenten Meldungs- und Medienmanagement befinden sich derzeit mehrfach im Einsatz. Begleitend zu den oben genannten Aktivitäten befasste sich der Consultant mit einem Internetauftritt mit den aus der Verkehrsmanagementzentrale bereitgestellten Daten. Dabei kamen verschiedene Technologien zum Einsatz. Er realisierte den Internetauftritt durch JAVA Servlets und die Kommunikation mit der Verkehrsmanagementzentrale mittels SOAP und XML. Die abgegriffenen Daten wurden mittels Java-Servlets aufbereitet und

*graphisch auf einer Hintergrundkarte visualisiert. Durch Multithreading und Caching im Servlet wurden Performance-Optimierungen erreicht. Der Consultant überzeugte durch sehr gutes technisches Wissen. Die Ihm zugewiesenen Aufgaben erledigte er zu unserer vollen Zufriedenheit. Er arbeitete im Rahmen der ihm übertragenen Aufgaben sehr selbstständig. Auftretende Probleme bearbeitete er sehr zügig und mit hoher Qualität. Wir bedauern, dass der Consultant aufgrund von wegfallenden Kundenaufträgen nicht weiter beauftragt werden konnte. Wir wünschen ihm für seine Zukunft alles Gute."*

Projekt POET-EA von 1997 bis 2000

Referenz durch Projektleiter eines Münchner Bankkonzerns vom 02.02.01

*"Der Consultant hat mit besonderem persönlichen Einsatz das elektronische Dokumentenverwaltungssystem entworfen, entwickelt und in die Produktion eingeführt. Sehr zufrieden sind wir mit der selbstständig und im Team erbrachten Leistung bezüglich IT-Know-How. Der Consultant hat Schulungen für interne Mitarbeiter durchgeführt, die anschließend die Wartung und Produktionssicherung eigenständig durchführen konnten."*

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