Dipl-Ing. Electronics/Automatics
(Technical University Warsaw)

Leszek-Alfons Wawrzyniak

(B r i t i s h   C i t i z e n)
(b o r n .   i n   I r v i n e / **S c o t l a n d**)

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Wartenberg, 11.12.2018

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Current strenghts and experiences in related areas:

- Profond **OO-Design & Programming** Knowledge **in** .NET 1,2,3,4,4.7 (**Visual Studio** .NET 2003/2005/2008/2010/2012/2013/2015/2017) **+ ReSharper/Enterprise-Architect** with usage of **Design Patterns & Unit-Testing**
- Regression-Test-(**UnitTest**) Driven Design & Development of Client-Server & Windows-Applications with **C#.NET**, (since 2004 18*projects) incl,:
    - o **Windows Applications:**
        - **WPF/XAML (DataBinding + MVVM (**Model-View-View-Model {**Prism**}**),** (11*projects **,** since 2011)
        - **LINQ**
        - **Multi-Threading (**TPL = Task Parallel Library)
        - **MVC(**Model-View-Controller**) {MVC 4}+ MVP** (6*projects)
        - **WCF/NET-**Remoting**, WebServices** (6*projects)
        - Reflections, Delegates &Events & Lambda-Expressions
        - **COM/DCOM (Component Object Model)**
        - **Div MS-Frameworks=>MES (IOC) , WWF(**Workflow**) ,MEF(**Extensibility,IOC**),Generics(T**emplates**)**
        - MultiThreading & TPL=Task Parallel Library
        - WinForms**,**
    - o **WEB_Applications** (8*Projects ,since 2004)
        - **ASP.NET & ASP.NET MVC** (Model-View-Controller) **) {MVC 4} ,Razor**
        - **Web.Forms,**
        - **AJAX , ASP.NET-AJAX**
        - **PHP** (4 & 5 (OO) **)** (expert) **+ ZendFramework** (MVC)
        - **Javascript** (expert) , JQuery
        - **AngularJs, AngularRouting,TypeScript**
        - **knockout-kendo, bootstrap**
        - **HTML 5, CSS**
        - **Telerik- Controls**
        - **Selenium** Automated GUI-Testing Enviroment
    - o **UIP- Framework** (MVC) & **Unity Framework/MEF/MES** & DI=Dependencies Injection
    - o **Databinding** (ADO.NET, NHibernate, ODBC,OleDB,OracleObjects)
    - o **ORM (Object Relations Mapping) & EDM/Entity-Framework**
    - o **LINQ & SQL**

- o Database-design & Administration & Programming **(since 1993)**
  - **SQL-Server (**since 1996) **, MS-Access**
  - **Oracle** (since 1993)
  - **MySQL**
  - **Sybase**
- o Visual-Studio Addons & Extensions (Viewers etc..)**:**
- o **Integration with Fiancial-Systems => Navision(MS) & SAP (since 2000)**
- o **XML, XSLT,SOAP** (design of XSD,Parsing, Conversions etc..)
- o **OO** (Object-Oriented) **Design** inclusiv **Design Patterns** with **UML** (Rational-Rose, Enterprise-Architect as UML-Modeling-Tool)
- o OO-Application of **Design Patterns (**Factory, Dependency Injection, Singleton, Visitor, Adapter, Facade, Strategy, Command, Observer…MVC, MVVM; MVP)
- o **NUNIT** Testing (with NUNIT & MS-Unit) **& Rhino-Mocks**

Additional Skills:

- CAN-BUS programming
- Visio
- NCover, FxCop–Analysis
- ECLIPSE
- CANTATA ++ (Unit +Testing for C, C++)
- DOORS
- RHAPSODY
- Extended, practical Know-How in development of WEB-Applications in non-Microsoft Technologies:
  - PHP-5 & ZendFramework (MVC) ,
  - Perl

- **SCRUM –**process-model of agile Software-Development
- Practical experience in usage of Version-Control-Systems & Continuous-Integration:
  - **TFS** (Team Foundation Server) ,
  - **GIT & GERIT**
  - **MKS,Visual-SourceSafe** (MS)
  - **ClearCase** (IBM)
  - **SVN**/Tortoise

In majority of the projects listed in the appendix , i have usually played paralelly multiple roles of:
an Architect , a **Designer** and finally the **developer**,

Additional strengths:

multilingual – Communication, Documentation and Presentation- and Negotiation-Skills in German,English,French,Russian,Polish

Customers:
Image-Processing & Analysis /Machine learning :
Zeiss-Microscopy-Group,

Manufacturing/Robotics:
Krones-AG (Liquid-Filling System),AMG(Car Tuning),Kardex (Automated High-Of-Robots),**TECAN** (Medicine-Labor-Robots) , **Infineon** (Test-Robots) ,**Siemens** (Automation & Drives) => diverse Sub-Projects

Automotive / Aerospace:
Rolls-Royce-Motor-Cars (now Bentley-Motor-Cars), **Volkswagen-AG** (PLM & Document Management) **, Ford-Motor-Company**(PLM & Document Management), **dSPACE**, (Simulation for Automotive), **OHB-System** (Aerospace/Satellite Control-Systems), **www.kratzer-automation.com** (automation of TestBenches (Prüfstände)

Banking/Insurance: **Direkt-Anlage Bank**. (DAB-BANK.de) ,**ERGO**(Insurance), **Lufthansa** Sky-Shops, DDS=Dresdner Direkt Services (**Call-center** of Dresdner-Bank **+ Alianz**) in Duisburg,

Other: **Triumph-Adler**(Logistics)

Sprzedaż mieszkań-
od umowy przedwstę

Project/Contract History

Aug-2018 – 30-Nov-2018 …

* Freelancer (Designer & Developer) – in Munich /Unterschleißheim@ www.kratzer-automation.com

TX-Explorer (Management of all aspects of **TestBenches -Automation (Test-Prüfstände)** for Automotive Industry (Customers: Porsche, BMW, VW, Mercedes.Benz, Volvo , Conti ..
)

Technologies:

.Net-C# (Visual Studio 2017) , **ASP.NET + Sql-Server + Proprietaires-Tx-Framework**) , Continuous-Integration via Jenkins (with Unit-tests+ integ-Tests+ automated UI-tests with Selenium)

Jun-2017 – 31-Jul-2018 …

* Freelancer (Designer & Developer) – in Munich @ www.ZEISS.COM

INTELLESIS/ATOMIC (Machine-Learning & Image Analysis Framework & Tools for advanced analysis of Microsope-Images)

Technologies:

.Net-C# (Visual Studio 2015) ,**WPF** + (**TPL** = Task Parallel Library),,TCP/IP, Python (Number-Crunching Algorythms) + C#--Python-Integration, Rest-API (Web-Server), Jenkins (Automated-testing) , Continuous-Integration via TFS (Gated-checkin with Unit-tests…)

Jun-2016 – 23-Dez-2016 …

* Freelancer (Designer & Developer.) – in Regensburg @ www.KRONES.DE

MES (Manufacturing Enterprise System)/Serialisation Framework for Real-Time-Control of Serialisation-Lines for Filling-Machines. (integration with SPS)

Technologies:

.Net-C# (Visual Studio 2015) ,WPF+ Prism,WCF, MEF, NHibernate , SQL-Server ,TCP/IP, Multi-Threading (TPL = Task Parallel Library), bootstrap, J-Query, knockout-kendo

Jan-2016 – Mai-2016

* **Freelancer (Designer & Developer.)** – in Bad-Tölz

PLM (Product-LifeCycle-Management for Automotive (AMG)…)

Technologies:

.Net-C# (Visual Studio 2013/2015) , ORACLE, SQL-Server, PHP (Zend-Framework) , Javascript

Juli-2015 – Dez-2015

* Freelancer (Designer & Developer.) at **Kardex-AG** in Bellheim (www.kardex.de) // Automated High-Of Robotics-Technic)

Design & Implementation (in**AngularJS & TypeScript) of a WEB-Database** for Service-Technicians of Kardex-Robotics-Control-System

Design & Implementation in C# of **complex Control.Software for** Control/Services of LightPointer,& Scanners,RfId-Transponder, via UDP & TCP/IP

Implementation of USB/TCP/IP Controllers **for a REFID (Access-Control-System) Device in C** under LINUX

Development of Software for **Roboter-Testing-Equipment** (Control of Servo-Motors via CAN_BUS etc… with SPS/B&R)

Technologies:

.Net-C# (Visual Studio 2013) , LINQ, Mock, XUnit, AngularJs & TypeScript , **bootstrap, J-Query, knockout-kendo**

C/C++ (unter Linux) , GIT; JRA(Sprints)

April-2014 – Juni-2015

* Freelancer (Designer & Developer.) at **TECAN-AG** in Mainz-Kastel (www.tecan.com // Automated Medizin/LaborTechnik)

Design & Implementation in C# of **complexen WPF-GUI** & Control moduls for die Control & Evaluation of mesurements of Medicine/Labor-Robot-Centers for die automated Medical Analysis of **Medical Labor-Tests** (Bluth etc..) Inclusive UnitTests

Implementation of **Mathematical Evaluation-Moduls (Approximation) via Cubic & Akima-Splines**

Implementation **(in WPF) of Graphic Viewers** for die Measurements, Levy-Jennings Graphs etc...

Technologies:

.Net-C#, WPF{MVVM/Prism},LINQ, WCF, **C++ ,** COM/DCOM,TFS(Sprints)

August-2013 – März-2014

* Freelancer (Designer & Developer.) at **OHB System AG** in Bremen (www.ohb-system.de) (Aerospace)

Design & Implementation & **Unit-Tests** of **Real-Time-Control-Software for SGEO (Small Galileo) Satellites (www.ohb-system.de)**

Technologies**:**

.Net-C#, WPF{MVVM/Prism}, WCF, **C, C++ , CANTATA ++, RTEMS (Real-Time-OS) & EDM & LINQ & MEF**(Dependency-Injection), COM/DCOM

Apr-2013 – Juni-2013

* Freelancer (Designer & Developer.) at **Triumph-Adler** in Mainz (www.ta.de) (Logistics)

EAI (Integration of diverse Enterprise Systems (**Navision**, TA_Logistics) **via WebServices/** SOAP **/WCF & XML & SQL**

Design & Implementation & of **Request/XML/SOAP)_Editor**(WPF + MVVM)

Technologies**:**

.Net-C#, +WPF/{MVVM/Prism}, + WCF +WebServices" + **Unity Framework** (DI/Dependency-Injection), COM/DCOM

Jul-2012 – März-2013

* Freelancer (Designer & Developer.) at **ITERGO/ERGO** in Hamburg (www.ergo.de) (Insurance)

.Net-C#,ASP.NET(MVC 4/AJAX) +WPF/ {MVVM/Prism}, + WCF+ VSTO Jquery,HTML 5 , CSS

EDM & LINQ + SQL

Telerik Controls,

UIP(MVC) & **Unity Framework** (Dependency-Injection), **EAI (**Integration with diverse Enterprise(Host) Systems)

Design & Implementation of ASP.NET WEB-Portals for die Ausendienst-Witharatter & diverse intern Tools in **WPF/MVVM** {**Prism**}+ VSTO (Excell)

Jan-2012 – Juni-2012

* Freelancer (Designer & Developer.) at **dSpace** in Paofborn (www.dspace.de) (Automotive/Aerospace-Simlations-Equipment)

.Net-C#, WPF/MVVM{Prism} +WCF+ NUnit "

Concept & Implementation of automated Test-enviroment, with Hardware-Emulation (NUnit-based, **Rhino-Mocks**)

März-2011 – Dezember-2011

* Freelancer (Designer & Developer.) at **INFINEON** in Regensburg (www.infineon.de) (Electronics/Semiconductors)

.Net-C#, WPF/MVVM{Prism} & SQL/LINQ

Design & Implementation Test_IDE (Interactive Development Environment for Semiconductor-Test-Equipment Programming")

Okt-2009 – Feb-2011

* Freelancer (Designer & Developer.) at **Siemens-Automation** & Drives in Fürth (www.siemens.de)

.Net-C#, WPF/MVVM + WCF => (aso **Qt** & **Webforms**)

Design & Implementation of diverse Analysis & Maintenance -Tools for die DataLayers des "Simatic/STEP7 Programming-Languages-Portal" for SPS-Siemens ("equivalent to Visual-Studio for SPS Programming")

Jul-2007 – Sep2009

* Freelancer (Designer & Developer.) at **Siemens-Automation** & Drives in Fürth

.Net-C# + MVC + ASP.NET Developer & Designer +,

HTML 5 , CSS

Design & Implementation "Simatic/STEP7 Programming-Languages-Portal" for SPS-Siemens ("equivalent to Visual-Studio for SPS Programming")

Jul-2007 – Nov-2007

* Freelancer (Designer & Developer.) at www.ConZoom.de (parallel)

.PHP 5 (OO) + AJAX # + MySQL Designer + Developer, Implementation
HTML 5 , CSS
"WEB.Portal for Dealer-Management

Sep-2006 – Jun-2007

* Freelancer (Designer & Developer.) at **Siemens-Automation** & Drives in Fürth
.Net-C#,
Implementation "Structure-Service", Part of a new Programming-Plattform S7 of Simatic etc…

Jun-2006 – Sep-2006

* Freelancer at **Microsoft-Germany** & DDS (CRM-System for Call-Center of Dresdner Direct Services & **Alianz**) in Duisburg/Germany
.Net-C# + Biztalk,
Implementation of CRM/workflow-management solution based on C# & Biztalk

Jan-2005 – Jul-2006

* Freelancer (Designer & Developer.) at @ **Creative-Channel**.de in Munich/Germany
ASP.NET + C#, Implementation of multiple Multilanguage Web-Portals and Content Management Systems

Oct-2004 – Dez-2004

* Freelancer at @ **BMS = Bristol-Myers Squibb** in Munich (US-Pharmaceutical Company) + PENTASYS.GmbH -
.ASP.NET+ VB.NET/C#- + **Oracle**
Implementation of Multilanguage intranet-Portals for Sales-Representatives

Feb-2004 – Sep-2004

* Freelancer (Designer & Developer.) at @ **Bentley Motor Cars** Ltd. in UK (Crewe)
ASP.Net/ C++,
Implementation of multiple Projects ie.
- Multilanguage intranet-Portal (pro country/language) for Repair-Shops
- Content-Management for Technical-Authors in 7-Languages inc. Japanese

Oct-2003 -- Jan-2004 - **ITIS**-AG Landshut/Germany

- * Freelancer (Designer & Developer.) **C++/.Net** +
- Project-Manager of ENBEX-Portal for Bavarian-Government
(Environment-Protection projects phased-out)
Integration Navision <=> Web-Portals

April-2000 - Sep-2003 - **AdvancedCommerce** AG Munich/Germany
IT & Software-Development Manager. (**C++, .NET**)
ISP (Integration Services Proviof) for E-Business
and E-Commerce(B2B,B2C)
Integration Navision <=> Web-Portals

Jan-2000 - March-2000 - Freelancer Software Consultant , **C++** Designer & Developer

April-1993 - Jan-2000   - **CSC** (Computer-Sciences Corporation USA),
(since 1996 CSC-Ploenzke in Munich /Germany
as Software Consultant **, C++ Designer & Developer**
responsible for Implementation of IT-Projects:
Ford-Motor Company, Rolls-Royce-Motor-Cars, Volkswagen
German National Library in Frankfurt.

before 2004 => multiple Projects in development of **Document-Management-System & Financial-Systems-Integration** (see more details in further pages..)

Details of recent Projects (2018-2003),

Company	System-Name	Period	Role	System-Content	Development-tools
www.kratzer-automation.com	**TX-Eplorer**	Aug-2017-bis Nov-2018	Developer ,...	Design & Implementation of Management of all aspects of TestBenches - Automation (Test-Prüfstände) for Automotive Industry (Customers: Porsche, BMW, VW, Mercedes.Benz, Volvo , Conti ...)	▪ C # .NET 4.6.1, Visual Studio 2017 (.NET) ▪ Asp.NET ▪ Multi-Threading (TPL = Task Parallel Library) ▪ WCF ▪ SQL-Server ▪ LINQ ▪ VSN-Code & Versions-Management + Agile-Tools ▪ Unit-Testing ,(MSUNIT,MOCK) ▪ Continuous-Integration via Jenkins
Zeiss-Microsopy-Group in Munich www.zeiss.de	**INTELLESIS (ATOMIC)**	Jan-2017-bis Jul-2018	Designer & Developer ,...	Design & Implementation in C# /.NET of complex machine-learning based tool **for automated, advanced image-analysis of Microscopic-Images**	▪ C # .NET 4.6.1, Visual Studio 2015 (.NET) ▪ Multi-Threading (TPL = Task Parallel Library) ▪ WPF ▪ SQL-Server + SQL-Lite ▪ LINQ ▪ TFS-Code & Versions-Management + Agile-Tools ▪ Unit-Testing ,(MSUNIT,MOCK) ▪ Continuous-Integration via TFS (Gated-checkin with Unit-tests…) ▪
Krones AG in Regensburg www.krones.de	**MES_Serialisation Framework**	Jun-2016-bis Dez-2016	Designer & Developer ,...	Design & Implementation in C# /.NET of complex Real-Time Control System for Krones-Serialisation-Solution (for Nestle/NL) Implementation of TCP/IP Communication with SPS	▪ C # .NET 4.5.1, Visual Studio 2015 (.NET) ▪ Multi-Threading (TPL = Task Parallel Library) ▪ WPF + Prism ▪ MEF (IOC) ▪ WCF ▪ SQL-Server ▪ LINQ/EDM ▪ SVN & TFS-Code & Versions-Management ▪ Unit-Testing ,(NUNIT,MOCK) ▪ bootstrap, J-Query, knockout-kendo
Jursa-Consulting in Bad-Tölz	**KERS**	Jan-2016-bis Mai-2016	Designer & Developer ,...	Implementation in C# & PHP of complex PDM /**PLM (Product-LifeCycle-Management**	▪ C # .NET , Visual Studio 2015 (.NET) ▪ SQL-Server,MySQL ▪ Oracle 10 ▪ LINQ/EDM ▪ PHP 5 + Zend-Framework

				for Automotive(AMG)	▪ GIT-Code & Versions-Management ▪
Kardex AG in Bellheim www.kardex.de	**LLX_Control s**	Jul-2015-bis Dez-2015	Designer & Developer ,...	Design & Implementation in AngularJS & TypeScript of WEB-Database for die Service-Techniker zu Control of Kardex-Roboter Design & Implementation in C# of complexen Control.Software for die Steue-rung/Services of LightPointer,& Scanners via UDP & TCP/IP Implementation of USB/TCP/IP Controllers for ein REFID (Access-Control-System) Devce in C unter LINUX	▪ C # .NET , Visual Studio 2013 (.NET) ▪ C/C++ (for Control) ▪ SQL-Server,MySQL ▪ LINQ/EDM ▪ GIT-Code & Versions-Management ▪ Unit-Testing ,(XUNIT,MOCK) ▪ bootstrap, J-Query, knockout-kendo ▪ Angular-JS, Typecript

TECAN AG in Mainz-Kastel
www.tecan.com
	WEGO-WeCAN	April-2014-bis Mai-2015	Designer & Developer ,...	Regression-Test-(**UnitTest**) Driven De-sign & Implementation in C# of complex WPF-GUI & Control moduls for die Control & Evalu-ation of Measurements of Medizin/Labor-Robot-Centers for die automat-ed Durchführen & Messungen of Medizinischen Labor-Untersuchungen (Blut etc..)
				
				Implementation of Math-ematischen Evalua-tionsmoduls (Approxi-
					▪ C # .NET , , WPF+ MVVM{Prism},WCF
					▪ C++ (for Control)
					▪ Visual Studio 2012 (.NET)
					▪ MEF
					▪ SQL-Server,MySQL
					▪ LINQ/EDM
					▪ TFS-Code & Versions-Management
					▪ Enterprise-Architect (UML-Modeling)
					   ▪ UML
					   ▪ Design Patterns
					▪ Unit-Testing ,(MS-TEST)

				mation) via Cubic & Akima-Splines Implementation (in WPF) of Graphischen Viewern für die Measurements, Levy-Jennings Graphs etc...	

OHB-System AG in Bremen
www.ohb-system.de
	SGEO
	Small Galileo
	Satelite
		Aug-2013-bis März-2014	Development & Unit-Tests of Real-Time-Control-Software & diverse Tools for SGEO (Small Galileo) Sateliten (www.ohb-system.de)		▪ C # .NET , WPF, WCF (for Tools)
					▪ C, C++ (for Control)
					▪ Visual Studio 2012 (.NET)
					▪ MEF
					▪ SQL-Server,MySQL
					▪ LINQ/EDM
					▪ ECLIPSE (C, C++)
					▪ RTEMS (Real-Time-OS)
					▪ SVN-Code & Versions-Management
					▪ DOORS (Specifications)
					▪ RHAPSODY (UML-Modeling)
					   ▪ UML
					   ▪ Design Patterns
					▪ Unit-Testing , (CANTATA++)
					▪ DOXYGEN

Triumph-Adler in Mainz	**TA-Logistics**
	Project-
	Masterdata
		Apr-2013-bis Jun-2013	**Integration** of diverse Enterprise Systems (Navision, TA_Logistics Via Wemservices/WCF
			
			Development of **Request/XML/SOAP)_Editor**(WPF +MVVM)
					▪ C # .NET 4.0, WPF+ MVVM{Prism} WCF
					▪ Visual Studio 2010/12 + Expression-Blend
					▪ Unity-Framework(Dependencies-Injection)
					▪ SQL-Server
					▪ SVN-Code & Versions-Management
					▪ Telerik web controls
					▪ EnterpriseArchitect (UML-Modeling)
					   ▪ UML
					   ▪ Design Patterns
					▪ ReSharper.
					▪ NET Reflections
					▪ XML,XSD
					▪ SOAP
					▪ Unit-Testing , NCover,FxCop
					▪ NDoc

ITERGO/ERGO in Hamburg	**EASY**	Jul-2012-bis März-2013	Design + - Develop- ment…. of ASP.NET WEB-Portals for die Asuendienstwit haratter & diverse in- tern VSTO (Excel) Tools **EAI** => Inte- gration with diverse Enter- prise Systems		• C # .NET 4.0, ASP.NET , IIS • Visual Studio 2010 , ASP.NET , WCF, MVC-Framework, UIP-Framework, Unity-Framework, AJAX, VSTO • UIP(MVC 4) & Unity Framework (Dependencies Injection • JQuery HTML5 • Clear-Case Source-Code & Versions-Management • SQL-Server + DB2 • EDM/LINQ • EnterpriseArchitect (UML-Modeling) • .NET Reflections • XML,XSD • Unit-Testing , NCover,FxCop • NDoc • UML • Design Patterns • ReSharper
dSpace in Paofborn	**Platform- Management**	Jan-2012-bis Juni-2012	Design + - Develop- ment…. of automated Test- enviroment with Hardware- Symulaiton		• C # .NET 4.0 • Visual Studio 2010 , WPF{Prism}, WCF, W-Forms • MKS Source-Code & Versions-Management • SQL-Server • EnterpriseArchitect (UML-Modeling) • .NET Reflections • XML,XSD • NUnit , NCover,FxCop • NDoc • UML • Design Patterns • SCRUM • ReSharper
Infineon in Regensburg	**TEST-IDE Program- mings-Tools for Semicon- ductor TestEquip- ment**	März-2011- bis Dez-2011	Design + - Development of Program- mings-Suite for Test-Devices		• C # .NET 3.5 , 4.0 • WPF-GUI (MVVM{Prism}) • Visual Studio 2010 • SqlLite/EDM & Linq • SVN as Versions-Management • EnterpriseArchitect (UML-Modeling) • .NET Reflections • NUnit , NCover,FxCop • NDoc • XML,XSD • UML • Design Patterns

					▪ RUP & SCRUM ▪ ReSharper
Siemens-AG Automatisie-rungstechnik/Automation & Drives in Fürth	**„Weiter-Development of Analyse-tools for Step7-Plus/FileStorerage-Database**	Oct-2010-bis Feb-2011	Design + Weiter-Development of Analyse-Tools for Step7-FileOf/Database	Design & Weiterenticklung des FileOf-Viewers, of komplexen-Analyse & Viewer (GUI) Tools for die proprietaire Database of IECPL-Software (SPS Develop-mentstools)	▪ C # .NET 3.5 , ▪ WPF-GUI (MVVM) ▪ WCF ▪ Qt ▪ WebForms ▪ Visual Studio 2008/2010 ▪ Clear-Case as Versions-Management ▪ EnterpriseArchitect (UML-Modeling) ▪ .NET Reflections ▪ NUnit , NCover,FxCop ▪ NDoc ▪ XML,XSD ▪ UML ▪ Design Patterns ▪ RUP & SCRUM ▪ ReSharper
Siemens-AG Automatisie-rungstechnik/Automation & Drives in Fürth	**BlockInter-face**-Teil of neuen STEP7-Develop-ments-Platform equivalent to „Visual-Studio" for SPS Pro-gramming	Jul-2009-bis Sep-2010	Design + De-velopment of WEB- Visual-iesierung	ASP.NET + WEB-Forms + AJAX based one Intra-net-Platform for Step7plus	▪ C # .NET 3.5, ASP.NET – ▪ AJAX, Javscript ▪ MVC ▪ Design Patterns ▪ Visual Studio 2008 ▪ SQL-Server ▪ Clear-Case as Versions-Management ▪ Rational-Rose (UML-Modeling) ▪ NUnit , NCover,FxCop ▪ NDoc ▪ XML,XSD ▪ ReSharper ▪ EnterpriseArchitect (UML-Modeling
Siemens-AG Automatisie-rungstechnik/Automation & Drives in Fürth	**BlockInter-face**-Teil of neuen STEP7-Develop-ments-Platform equivalent to „Visual-Studio" for SPS Pro-	Jul-2007-bis Sep-2009	Design + De-velopment of Struc-tu-re/ObjectMana gement & Vis-ualiesierung as Teil of STEP/ compiler and debug umge-	Design + Development of Struc-ture/ObjectManagement & **Visualiesierung** as Teil of STEP/ compiler and debug Umgebung. **equivalent zu „Visual-Studio" for SPS Pro-gramming** Teil-Portierung of aktu-	▪ C # .NET 2.0 -3.5, ASP.NET – ▪ Client-GUI (MVC) ▪ Visual Studio 2005/2008 ▪ SQL-Server ▪ Clear-Case as Versions-Management ▪ Rational-Rose (UML-Modeling) ▪ Windows-Forms … ▪ .NET Remoting ▪ .NET Reflections ▪ XML,XSD

	gramming		bung. Teil-Portierung of aktuellen C++/MFC STEP7 Funktionalität	ellen C++/MFC STEP7 Funktionalität Development of NUnit-tests	▪ NUnit , NCover,FxCop ▪ ReSharper ▪ NDoc ▪ XML,XSD ▪ UML ▪ EnterpriseArchitect (UML-Modeling
Siemens-AG Automatisie-rungstechnik/Automation & Drives in Fürth	**Structure-Service-** key-Teil of neuen STEP7-Develop-ments-Platform	Sep-2006-bis Jun-2007	Design + De-velopment of Management of Komplexen Object-Hierarchien with Arrays, References, Templates etc…	Design + Development of Vewaltung of Kom-plexen Object-Hierarchien with Arrays, References, Templates etc… Objekte and Grandfunk-tionen sind XML-konfigurierbar	▪ C #, .NET –Server-Development + Client-GUI (MVC) + Tools ▪ Visual Studio 2005 ▪ Clear-Case as Versions-Management ▪ Rational-Rose (UML-Modeling) ▪ .NET Remoting ▪ .NET Reflections ▪ NUnit , NCover,FxCop ▪ NDoc ▪ XML ,XSD ▪ UML ▪ RUP
www.Deinz.de Munich Special-Video-Shop with Flash integration	**Gesamt De-velopment of Software for Internet Por-tal**	Sep-2008-bis Mai-2009	Design + Deve-lopment des Portals	Design + Development des Portals Flash Integration	▪ PHP 5 + AJAX + ZendFramework ▪ MySQL ▪ Apache ▪ Javascript ▪ Flash CS3, CS2 ▪ Eclipse
www.Conzoom.de Munich Händler Suche-Portal	**Gesamt De-velopment of Software for Internet Por-tal**	Sep-2007-bis Nov-2007	Design + De-velopment des Portals and Search Engines	Design + Development des Portals and Search Engines	▪ PHP 5 + AJAX ▪ MySQL ▪ Apache ▪ Javascript ▪ Eclipse
Creative-Channel	**ISPO-Handler-Management**	Jan-2007-bis Mar-2007	Vewaltung of ISPO-Händler In www.sportsella.de	Vewaltung of ISPO-Händler In www.sportsella.de Portal-extensions in ASP + Admin-tools in ASP.NET + C#	▪ ASP, C #, .NET –Server-Development ▪ SQL-Server ▪ Visual Studio 2005
Bentley-Motor-Cars -UK	**BAS-Prototype**	Feb-2007	Prototyp of Content-	ASP.NET + C# Prototyp of Content-	▪ ASP.NET , C #, ▪ SQL-Server 2005

			.Management-Database with Windows-Forms & WEB-Clients	.Management-Database with Windows-Forms & WEB-Clients	▪ .NET Remoting ▪ WEB-Services ▪ AJAX ▪ Visual Studio 2005
Creative-Channel.de Munich	**Artikel-Management**	May- bis Jun-2006	Artikel - Lager Management	Artikel - Lager and Orof Management for Portal-Winns (Prices)	▪ C #, .NET ▪ SQL-Server + ▪ SQL Server Reporting Services ▪ XML ▪ Visual-Source-Safe ▪ .Excel, Word Programming + Integration ▪ .Net Remoting ▪ NUnit
Together with Microsoft-Germany @DDS Duis-burg=Dresdner Direct Sevices (Dresdner-Bank + **Alianz**)	**CRM/Workflow-Management**	Jun-2006-bis Sep-2006	CRM/Workflow - Management	CRM/Workflow - Management based on Biztalk-Engine	▪ C #, .NET –Server-Development + Client-GUI (MVC) + Tools ▪ Development of encapsulation of all DB-Accesses to SQL-Server + ADO (Datasets) ▪ Development SQL Server Stored-Procedures ▪ XML ▪ Biztalk 2006 – Orchestrations + Extensions ▪ Visual Studio 2005 Team-Suite ▪ Visual-Source-Safe ▪ Excel -Integration ▪ Email-Receiveing ▪ Email -Parsing ▪ .Net Remoting ▪ NUnit ▪ NDoc ▪ UML
Creative-Channel.de Munich	**WEB-Portals + Content Management (CC-Admin)**	Jan-2005 bis April-2006	12* WEB-Portals + Backoffice-CCAdmin (Content-Management)	Development of WEB (ASP.NET) + ASP Por-tals + Backoffice-CCAdmin (Content-Management) In multiple Languages XLS,Word - Reports-Generation	▪ ASP.Net –2003+2005 GUI ▪ C#, VB.NET + VB.6 ▪ C++, COM, ActiveX ▪ SQL-Server 2005 + ▪ SQL Server 2005 Reporting Services ▪ SSIS SQL Server Integration Services ▪ XML ▪ Visual-Source-Safe ▪ .Excel, Word Programming + Integration ▪ .Net Remoting ▪ NUnit

Creative-Channel Munich	**CCADMIN**	Sep05- April -2006	Enwticklung of CCADMIN	Centrales Portalk Management	- ASP.Net ,C# ,C++ COM ActiveX - VB.NET - - SQL-Server 2005 - XML
Creative-Channel Munich	**CMS**	Jan-Sep-2005	Enwticklung of CMS	Enwticklung of CMS = Content Management System	- ASP.Net ,C# - SQL-Server - XML
Creative-Channel Munich	**WEB-Portals Extensions**	Jan-Sep-2005	Weiter-Enwticklung of Portals-Software	Weiter-Enwticklung of Portals-Software	- VB, ASP, - VC++, COM ActiveX - ASP.Net ,C# - VB.NET - - SQL-Server - XML
Pharmaceutical Munich	**CRM**	Oct-Dez 2004	Development of WEB (.NET) CRM Systems for Aussendienst	Development of WEB (.NET) CRM Systems for Aussendienst	- ASP.Net –GUI - VB.NET - Oracle 9 - XML
Bentley-Motor-Cars UK	**Unicode-Support for IETIS**	Feb-Juni-2004	Erweiterung of IETIS auf UNICODE (Japanisch …	Erweiterung alle Authoring TOOLS of IETIS auf UNICODE (Japanisch …	- ORACLE 8, 9i - Visual C++ , Teilweise C# .Codebase - SGML/XML
Bentley-Motor-Cars UK	**Unicode-Support for ASSIST**	Feb-Juni-2004	Erweiterung des ASSIST auf UNICODE (Japanisch …	Erweiterung des Viewers ASSIST auf UNICODE (Japanisch …	- ORACLE 8, 9i - Visual C++,MFC,COM .Codebase - SGML/XML
ITIS-AG	**Enbex-Portal**	Oct—2003 – Jan-2004	On-Line Management of Enbex Partners + Integration with Navision	On-Line Management of Enbex Partners + Integration with Navision	- ASP GUI - C++ , COM, Activex - SQL-Server (MS) Database (Triggers + ,Stored-Procedures) - Navision-Integration (NAS) - Biztalk 2002,2004 (Beta)
ITIS-AG	**Integration Navision-Sharepoint-server**	Sep—2003 – Jan-2004	Execution of Navision Queries and Update via Sharepoint Client Portierung of C++/MFC auf C#/.NET	Execution of Navision Queries and Update Customer/Orof Data in Navision via Sharepoint Client Portierung of C++/MFC auf C#/.NET	- WEB_Parts GUI (C#) - WEB-Services (C#) - C# (Csharp) and COM interfaces - Navision-Integration (NAS) - SharePoint Portal Server 2003 - XML/XSLT

Advanced Commerce AG in Munich (.)	**Bild.De**	Feb-2003	On-Line Inte-gration of Bild.de with ERP System (Navision) (Prototype)	On-Line Integration of Bild.de with ERP System (Navision)	▪ WEB-Services (Servlets) in Java anof Resin ▪ C#, C++ , COM, Activex ▪ Java Client anof Resin/SUN_Solaris + Oracle 8 ▪ Navision-Integration
Advanced Commerce AG in Munich (.)	**Suppliers-Portal**	July-Aug - 2003	On-Line Inte-gration of Multiple-Suppliers with ERP System (Navision)	On-Line Integration of Multiple-Suppliers with ERP System (Navision)	▪ WEB-Services (Servlets) in Java anof Resin ▪ C++ , COM, Activex ▪ SQL-Server (MS) Database (Triggers + ,Stored-Procedures) ▪ Navision-Integration

Überblick of „älteren" Projecte (since 1995 bis 2004),

Firma	Systemname	Zeit	Hauptfunktion	Systeminhalt	Developmentstools
					▪
FORD Motor Company In Detroit/USA, Aveley/UK,Köln/GY	**ISIS**-International Service Information System	April-1994-Nov-1995	Viewer+ Data Conversion	**ORACLE**-Based ones SGML- Conversion and CD-Viewing System	▪ Parser + Tools and komplette DB-Gesteuerte Umgebung for die Extraktion and Konvertierung of SGML-Text and Bilofn aus dem Interleaf to ISIS. ▪ Tools to Prüfen of Konsistenz of Daten (z.B. Abmessungen of Bilof) ▪ Oracle based one Management of Bilofn and SGML-Dateien
FORD Motor Company In Detroit/USA, Aveley/UK,Köln/GY	**ISIS**-International Service Information System	April-1994-Nov-1995	Viewer+ Data Conversion	**ORACLE**-Based ones SGML- Conversion and CD-Viewing System	▪ Parser + Tools and komplette DB-Gesteuerte Umgebung for die Extraktion and Konvertierung of SGML-Text and Bilofn aus dem Interleaf to ISIS. ▪ Tools to Prüfen of Konsistenz of Daten (z.B. Abmessungen of Bilof) ▪ Oracle based one Management of Bilofn and SGML-Dateien
FORD Motor Company In Detroit/USA, Aveley/UK,Köln/GY	**ISIP** International Service Publishing System	Nov-1995 - August-1996	DMS + Autoren System	**Documentum (EDMS V1.1 and V2.0)** - Based ones DMS & SGML-Redaktions-System	▪ Integration of Adept (SGML-Editor) with Dokumentum ▪ Extended Documentum/Oracle based one Management of Bilofn and SGML-Dateien with Versions- , Status, and Workflow-Management ▪ User-Management(Rechte etc…)
Die Deustche-Bibltiothek - in Frankfurt	**MMB M**ulti**m**edia **B**ereitstellung System	Juli-96 – Juli-1997	Multimedia Informations-Erfassungs-and Bereitstellung-System in Intranet	SQL-Server Multimediales Dokument Managementssystem **Intranet**-Application	▪ OO-Modelierung with OEW ▪ Erfassungs-Modul for die EP's (Elektronischen Publikationen) (CD's, Floppies, Booklets, Covers …) ▪ User-Management(Rechte, Profile etc…) ▪ Integration with Jukeman (Jukebox-Management) ▪ Integration with Chip-Karten –Leser ▪ Development of Screen-Snap-shot Tools and Managements-Moduls for Drucker ▪ SQL-Server based one Management of hierarchisch strukturierten EP's
Rolls-Royce Motor-Cars Ltd in Crewe-UK	**IETIS**-Interactive Electronic Technical Information System	Feb-May 1996	IETIS-Autoren-System **Prototyp**	**Oracle**-Based ones Dokumenten-Management and SGML-Redaktions-System	▪ Oracle based one Management of Bilofn and SGML-Dateien ▪ Integration of Adept (SGML-Editor) ▪ DTD Development
Rolls-Royce Motor-Cars Ltd in Crewe-UK	**IETIS**-... Phase II	July-1996-April-1998	IETIS-Autoren System **Produktives**	**Oracle** -Based ones Dokumenten-Management and SGML-Redaktions-	▪ OO-Modelierung with OEW ▪ OME-– Object Management Engine , spezialisiertes Dokumentenmanagement System for die Management of Hierarchisch

				System	System **Intranet**-Anbindung	Strukturen , with eigener Versions, Sprach-Varianten, Status, Workflow, Benutzer-Management ▪ Integration of Adept (SGML-Editor)+VISIO with OME ▪ Tools for Parsen, Analyse and Konversion of Altdaten (Texte) in SGML ▪ Interaktiver Editor for Illustrated Parts Catalogue (IPC) (Ersatzteile-Katalog) , ▪ Management of Teilen and Hotspots in DB´´ ▪ DHTML Generatoren , automatische Publikation of Technischen- Bulletine im Intranet
Rolls-Royce Motor-Cars Ltd in Crewe-UK	**IETIS-Viewer**	April-1997—Nov-1997	IETIS-CD-Viewer	**ORACLE**-Based ones SGML-Conversion and CD-Viewing System		▪ Komplete, Automatische CD-Generierungs-Umgebung with Parser + Konvertierungs-Tools for die völlig automatische Komposition of interaktiven CD's ▪ Voll-text-Indexierung-Tool(CODEBASE based on) ▪ Interaktiver HyperText/CD-Viewer, with integrierter Voll-text-Suche, ▪ Integration des Viewers in das Diagnosedevce of Genrad ▪ WWW and FTP Download of Technischen-Bulletinen
DAB Direkt Anlage Bank In Munich	**KSI-Auto**	August-1998 Feb-1999	Development of Konto-Eröfnung Systems (integriert with DAISY)	(**ORACLE**-(**8.i**) based one) Applikation for die Automatische Konto-eröfnung auf Mainframes aus dem DAISY		▪ As NT-Service implementiert, Tool for automatische Konto-Eröfnung. ▪ Die Kanden-Request-Daten sind durch Customer-Care (DAISY) generiert, and werden with Konto-Referenz-Daten „gemerged" (verschiede Konten-Modelle) , danach werden die Daten in entsprechende Protokole (Buffer) „gepacked" and zwei KontoführungSystems (auf Mainframes) as Input gestellt ▪ Output of Mainframes wird automatsich analysiert und die Ergebnisse interpretiert und dem DAISY as Ergebnis of Transaktion geliefert. ▪ Monitoring Tool for die Transaktionen ▪ Rational-Rose - Modelling+UML

Volkswagen/Audi –AG in Wolfsburg	**LIVAS3** Literatur Management System	Feb-1999-Jan-2000	Autoren System for die Erstellung of technischen Literatur	**Documentum**(EDMS 3.1.6) Based ones DMS & SGML- & Multimediales Redaktions –System **Intranet**-Anbindung		▪ OO-Modelierung with UML/Rational-Rose
						▪ As MDI (Multi-Document…Interface) Extended Documentum/Oracle based one Management of Bilofn and SGML-Segmenten with Versions- , Status, and Workflow-Management
						▪ User-Management(Rechte etc…)
						▪ **Internet-Client** for externen Graphiker
						▪ Integration of:
						  ▪ Adept (SGML-Editor) with Dokumentum
						  ▪ MultiDoc-Pro

					▪ FrameMaker ▪ IsoDraw ▪ TRADOS (Sprach-übersetzung-Tools)
CSC-Ploenzke /for Volkswa-gen-AG	**LIVAS3 –** Migration To EDMS 4.i	Jan-March 2000 +	Trial Migration of LIVAS3 of EDMS 3.16 into EDMS 4.i		▪ C++ ▪ MFC ▪ COM
Rolls-Royce Motor-Cars Ltd in Crewe-UK	**Extensions IETIS-**	Feb-March 2000 + Ongoing	IETIS-Autoren-System **Extensions**	**Oracle**-Based ones Do-kumenten-Management …	▪ C++ ▪ MFC ▪ COM ▪ Integration with MHS (Man-Hour Scheduling System) ▪ Integration with MASCOT (ERP) ▪ CD-Viewer Extensions ▪ Bugs-Fixing

AdvancedCommerce.de AG in Munich	myParadise Intershop Merchant 4 Extensions and Integra-tion with ERP -	April-2000-Dec-2000	Internet-Shop Extensions and Customisation	**Intershop-Merchant 4** based ones **Internet-Shop + Integration with ERP (**Financial-System) Navision (siehe **myParadise.de**)	▪ C++ and Perl extensions for Intershop +COM
					▪ Sybase Extensions of Intershop Data-model
					▪ Integration of NAVISION (Financial-System) with Intershop
					  ▪ automatische Bidirectionale Übetragung of
					    ▪ Kanden-Daten
					    ▪ Aufträgen
					    ▪ Artikel-Info (automatische Späre etc...)

AdvancedCommerce.de AG in Munich	myParadise **Catalog-Management**	Jan-2001-March-2001	Catalog-Management	Extension to Back-Office of Intershop-Merchant 4 **Explorer-Like Catalog-Management**	▪ C++ + COM + Windows , teilweise C# ▪ Sybase Extensions of Intershop Data-model ▪ Integration of NAVISION (Financial-System) with Intershop ▪ automatische Bidirectionale Übetragung of Kanden-Daten, Afuträgen and Artikel-Info

Advanced Commerce AG in Munich (.)	**UMT** = Uni-versal Docu-ment **Ma**n-agement **T**ool with Windows-GUI and Intranet-GUI	July-2001-Nov-2001	Document & Content Man-agement + Intranet	Universal Document Management System with integrated Version-Management Workflow-Management ….	▪ C++ ,MFC , COM, Activex
					▪ SQL-Server (MS) Database
					▪ ISAPI Extensions to IIS Server (WEB)
					▪ Integration with
					  ▪ Exchange-Server
					  ▪ MS-Project-Manager
					  ▪ …

Advanced Commerce AG in Munich (.)	**TQM-T**ransactions **Q**ueue **M**anager	Dec-2001-Jan-2002	On-Line Inte-gration of Multiple-Shops with ERP Sys-tem (Navision)	On-Line Integration of Multiple-Shops with ERP System (Navision)	▪ C#, C++ , COM, Activex ,Multithreaded-System ▪ SQL-Server (MS) Database (Triggers + ,Stored-Procedures) ▪ Biztalk 2000
Advanced Commerce AG in	**Bild.De**	Feb-2003	On-Line Inte-	On-Line Integration of	▪ WEB-Services (Servlets) in Java anof Resin

				Bild.de with ERP System (Navision)	- C#, C++ , COM, Activex - Java Client anof Resin/SUN_Solaris + Oracle 8 - Navision-Integration
Munich (.)			gration of Bild.de with ERP System (Navision) (Prototype)		
Advanced Commerce AG in Munich (.)	**Suppliers-Portal**	July-Aug - 2003	On-Line Integration of Multiple-Suppliers with ERP System (Navision)	On-Line Integration of Multiple-Suppliers with ERP System (Navision)	- WEB-Services (Servlets) in Java anof Resin - C++ , COM, Activex - SQL-Server (MS) Database (Triggers + ,Stored-Procedures) - Navision-Integration