Profile/Curriculum Vitae

I Contact

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Education: Diploma in physics, University of Leipzig
Languages: German (native), English (fluent)

II Personal Characteristics

- result-orientated and responsible
- fast familiarizing into new tasks and tools
- mediation between users and technical realisation
- proactive, autonomous, operational readiness
- careful planning, methodical, clear structuring

III Central Qualification

- **consulting** (requirement analysis/concretion, business process analysis, feasibility studies, costs/benefits analysis)
- **project management** (requirement analysis, conceptual design, planning, risk analysis, agile practices during implementation, quality assurance, control of success)
- **software development** (design and implementation of solutions following customer needs, customer specific modifications of established solutions, strategic enhancements of established solutions, design and implementation of tools supporting software developers)
- **user training** (user training in German and English, technical guidance of developer teams)
- **documentation** (creation of user documentation, creation of system documentation for administrators, conceptional design and implementation of structures for further maintenance of documentation)

IV Knowledge

Database systems

subject	content	level
general	SQL: data retrieval and handling	expert
	planning and modelling of data structures	expert
	scripts, procedures, functions, triggers	advanced
	interfaces, quality, rigidity of data, completeness of data	advanced
	data warehouses, cubes	basic
Oracle 8.x bis 11.x	data retrieval and handling	expert
	client and server configuration and administration	basic
	TOAD for Oracle	advanced

subject	content	level
MS SQL 2005 bis 2022	data retrieval and handling	expert
	client and server configuration and administration (Management Studio resp. Enterprise Manager)	expert
	TOAD for MS SQL	advanced
Cosmos DB	data retrieval and handling	expert
PostgeSQL 8.x bis 9.x	data retrieval and handling	expert
	client and server configuration and administration	expert
	pgAdmin	expert
MY SQL 3.x bis 5.x	data retrieval and handling	advanced
	client and server configuration and administration	basic
	phpMyAdmin	basic
MS Access	data retrieval and handling	advanced
	migration and replication of data	advanced
Gupta SQLBase	data retrieval and handling	advanced
	client and server configuration and administration	basic
Sybase SQL Anywhere	data retrieval and handling	advanced
	SQL Anywhere Studio	basic
Access technologies	ADO .net	expert
	ODBC	expert
	BDE	expert

Software Development

subject	content	level
.net	MS Visual Studio 2003 to 2022	expert
	MonoDevelop 2.x to 7.x	expert
	Xamarin Studio	expert
	C#	expert
	VB	expert
	WPF, Winforms, Telerik, Infragistics, DevExpress, GtkSharp	expert
	WCF	expert
	Razor, Blazor	expert
	EntityFramework	expert
	Dependency Injection: Unitiy, Simple Injector etc.	expert
	Xamarin Forms	expert
	Unit-, Comonent- und UI-Tests: Moq, Xunit, Specflow etc.	expert
Delphi	Delphi 1 to 7	expert
	Kylix	basic
	Object Pascal	expert
	C/C++	basic

subject	content	level
eclipse	Juno 4.2	advanced
	Android Developer Tools	basic
Gupta Team Developer	up to TD 2000	basic
VBA	MS Office Macro development	advanced
Python		advanced
MS Power Shell		advanced
MS Build		advanced
Java		basic
Fortran		basic
Webservices	SOAP, WSDL, REST	expert
UML	planning, documentation	advanced
Version management	Microsoft Team Foundation Server 2010 to 2017	expert
	IBM Rational ClearCase	advanced
	CVS	expert
	Git	expert
	Mercurial	basic
design pattern	MVC, MVVC, SOA, Mirco Services etc.	expert
object orient.	OOD, OOP	expert
test	MS Test Manager 2010 to 2013	expert
	MS Test	expert
agile methods	Scrum (Certified ScrumMaster®)	expert
	Scrum, Kanban, XP, FDD, TDD, ATDD	advanced

Web Development

subject	content	level
Azure	CI/CD Pipelines, ARM Templates etc.	expert
Angular		advanced
TypeScript		advanced
ZOPE 2.x		advanced
Plone 2.x		advanced
ASP .net Core		expert
HTML, CSS		advanced
JavaScript	jQuery, DOM	advanced
Ajax		basic
PHP		basic
XML		expert
XSL, XSLT		advanced
SVG, VRML		basic

Operating and Computer Systems

subject	content	level
MS Windows 3 bis 11	installation, configuration, administration	advanced
	training and user support	expert
Linux Ubuntu, Debian	installation, configuration, administration	advanced
	automation, scripts	basic
	training and user support	expert
Android	installation, configuration, administration	advanced
	training and user support	basic
Unix	Solaris, BSD	basic
Network	TCP/IP, NAT, Firewalls, Routing	advanced
Virtualization	VM Ware, VirtualBox, Hyper V	advanced

Miscellaneous

subject	content	level
scope24, rexpress	real estate valuation	expert
	training and user support	expert
LORA	real estate valuation	expert
	installation, configuration, administration	expert
	training and user support	expert
geoport	geo based data for real estate valuations	advanced
	training and user support	advanced
OSPlus	security management for financial institutions	basic
EUROPACE	security management for financial institutions	basic
A/C/S	waste management	basic
REIKO	travel management	basic
MS Office	Word, Excel, Powerpoint, Outlook, Viso, Project	expert
	installation, configuration, administration	expert
	training and user support	expert
	macro development (VBA)	advanced
Open-/ LibreOffice	Writer, Calc, Impress, Draw, Base	expert
	installation, configuration, administration	advanced
	training and user support	expert
	macro development	basic
Lotus Notes	training and user support	advanced
Evolution	training and user support	expert
Funambol	PIM data replication via SyncML	expert
	installation, configuration, administration	expert
	training and user support	expert

subject	content	level
Help & Manual	creation of documentation and online help	expert
	installation, configuration, administration	expert
	training and user support	expert
lexiCan	knowledge management	advanced
	installation, configuration, administration	basic
	training and user support	advanced
yEd	Graph Editor	advanced
	training and user support	advanced
MkDocs	creation of documentation, online help and web sites	expert
Sonar Cube	installation, configuration, administration	expert
Software Asset Management	licence management and compliance	advanced

V Project Experience

09/2021 – 09/2023: Commercial database for microscopy data at the Carl Zeiss Microscopy GmbH

- strategic enhancements and maintenance of the server back end of the archive for microscopy data as well as for the identity and access management
- strategic enhancements and maintenance of the installers of all components of the server back end
- strategic enhancements and maintenance of the client implementations for the access to the server back end (including the user interface for the configuration of the user and access management within the client applications)
- strategic enhancements and maintenance of a uploader tools for automated adding of microscopy data (images, measurement results, reports etc.) to the centralized archive
- strategic enhancements and maintenance of an infrastructure for server side processing of microscopy data
- conceptual design and implementation of a server back end for forgery-proof safekeeping of audit trail data
- conceptual design and implementation of a centralized administration and analysis tools for all of the named server back ends
- migration towards new technologies (.NET Core 3.1 to .NET 5.0, .NET 6.0 and .NET 7)
- within each of these responsibilities:
  - analyses of the functional requirements, conceptual design, effort estimation and implementation
  - bug analyses and fixes
  - design and implementation of automated unit unit, component and end to end tests
  - design, implementation and maintenance of a continuous integration pipelines
  - 3rd level support
- technologies: .NET, Microsoft Visual Studio 2012, C#, HTML, CSS, SOA, OOD, OOP, IdentityServer4, OpenID Connect, OAuth, ASP.NET Core, Signal-R, WPF, Syncfusion, Blazor, EntityFramework, SpecFlow, git, Azure Dev Ops, TSQL, MS SQL, MS Test, Scrum

06/2021 – 08/2021: Arvato Smart Logistics Platform at the Arvato Systems GmbH

- conceptual design and implementation of a reporting for processed messages within the Arvato Smart Logistics Platform (ASLP)
- conceptual design and implementation of an Azure Logic App for the import of messges from a folder on a SFTP server into the ASLP

- migration towards new technologies (.NET Core 2.1 zu .NET Core 3.1)
- bug analyses and fixes
- increase of the code quality: reduction of compiler warnings
- technologies: .NET, Microsoft Visual Studio 2019, C#, OOD, OOP, ASP.NET Core, EntityFramework, Razor Pages, JavaScript, jQuery, Bootstrap, git, Azure Dev Ops, Azure Logic App, TSQL, MS SQL, Moq, Xunit

08/2019 – 03/2021: Commercial database for microscopy data at the Carl Zeiss Microscopy GmbH

- conceptual design and implementation of a uploader tools automated adding microscopy data (images, measurement results, reports etc.) to the centralized archive
- strategic enhancements and maintenance of the server back end of the archive for microscopy data as well as for the identity and access management
- strategic enhancements and maintenance of the installers of all components of the server back end
- strategic enhancements and maintenance of the client implementations for the access to the server back end (including the user interface for the configuration of the user and access management within the client applications)
- conceptual design and implementation of an infrastructure for server side processing of microscopy data
- migration towards new technologies (.NET Core 2.1 to .NET Core 3.1 and IdentityServer4 v2 to IdentityServer4 v3)
- within each of these responsibilities:
  - analyses of the functional requirements, conceptual design, effort estimation and implementation
  - bug analyses and fixes
  - design and implementation of automated unit unit, component tests
  - design, implementation and maintenance of a continuous integration pipelines
- technologies: .NET, Microsoft Visual Studio 2019, C#, SOA, OOD, OOP, IdentityServer4, OpenID Connect, OAuth, ASP.NET Core, Signal-R, WPF, Syncfusion, EntityFramework, Microsoft Team Foundation Server, git, Azure Dev Ops, TSQL, MS SQL, MS Test, Xunit, Scrum

04/2019 – 06/2019: easyfilius at the KOMSA AG

- consulting within the preparation of the next generation of easyfilius (inventory management with cash register for specialized trade) – the turn over from a WinForms based client server implementation to a Azure cloud hosted web application:
  - conceptual design of a software architecture able to run within the Azure Cloud as well as on premise at the customer side
  - design of a strategy for a step-by-step agile evolution from the current to the next generation of the software
  - estimation of efforts
- strategic enhancements and maintenance of the current easyfilius generation:
  - analyses of the functional requirements, conceptual design and implementation of the business logic
  - bug analyses and fixes
  - design and implementation of automated unit unit and feature tests
- technologies: .NET, Microsoft Visual Studio 2017, Microsoft Visual Studio 2019, C#, SOA, OOD, OOP, WinForms, DevExpress, EntityFramework, Microsoft Team Foundation Server, git, Azure Cloud, TSQL, MS SQL, Azure Application Insights, MS Test, Scrum

05/2018 – 03/2019: Identity and Access Control at the COMPAREX AG

- conceptual design and implementation of the identity and access control managements for all of the at the COMPAREX AG new created web portals (COMPAREX Portfolio Management Platform, COMPAREX Business Center, COMPAREX Unified Cloud

Management) as well as for the service to service communication of the back end services
- conceptual design and implementation of the customer management for provisioning of authentication related information
- conceptual design and implementation of a user interface for administering of the information within the identity and access control context and for the customer management context
- within each of these responsibilities:
  - analyses of the functional requirements, conceptual design and implementation of the business logic
  - bug analyses and fixes in the front and back end of the system
  - design and implementation of automated unit unit, component and feature tests
  - design and implementation of a continuous integration/continuous release pipeline
  - securing a 24/7 availability within a DevOps context
- technologies: .NET, Microsoft Visual Studio 2017, C#, TypeScript, Angular, Protractor, JSON, SOA, Micro Services, OOD, OOP, IdentityServer4, OpenID Connect, OAuth, ASP.NET Core, Xunit, Microsoft Team Foundation Server, git, Azure Cloud, Document DB, Cosmos DB, Azure Application Insights, Azure Resource Manager Templates, MS Test, MS Build, Microsoft Power Shell, Scrum

02/2017 – 05/2018: Global Managed Services at the COMPAREX AG

- strategic enhancements and maintenance of the tool for preparing and processing of contract and software installation data for the creation of license balances (Software Asset Management)
- retrieval and processing of cloud consumption data from Office 365 and Azure EA
- deletion of customer data in the context of the German DSGVO (General Data Protection Regulation)
- strategic enhancements of the portfolio management platform
- within each of these responsibilities:
  - analyses of the functional requirements, conceptual design and implementation of the business logic
  - design and implementation of user interfaces
  - bug analyses and fixes in the front and back end of the system
  - design and implementation of automated unit unit, component and feature tests
  - design and implementation of a continuous integration/continuous release pipeline
  - increase of the code quality: refactoring, reduction of compiler warnings
- technologies: .NET, Microsoft Visual Studio 2017, C#, Microsoft SQL 2016, TSQL, JSON, WPF, MVVM, SOA, WCF, OOD, OOP, DevExpress, EntityFramework, Xunit, AutoFac, SimpleInjector, Microsoft Team Foundation Server, git, Azure, MS Test, MS Build, Microsoft Power Shell, Sonar Cube, Scrum

02/2016 – 01/2017: PRECOGS

- conceptual design and implementation of a planning, accounting and forecast system for clinic studies of the eResearchTechnology GmbH:
  - analyses of the functional requirements, conceptual design and implementation of the business logic
  - design and implementation of the systems back end
  - design and implementation of the user interfaces
  - design and implementation of a flexible Excel template based reporting
  - bug analyses and fixes in the front and back end of the system
  - design and implementation of automated unit tests
- conceptual design and implementation of interfaces between PRECOGS and other systems used at the eResearchTechnology GmbH:
  - initial data import form excel files
  - exchange of invoicing data with the ERP system using Excel files
  - integrated and automated sending of emails
  - ex- and import of configuration data between PRECOGS installations using XML files

- implementation of a database project for versioning of the database development:
  - creation and maintenance of post deploy scripts in the database project
- support and execution of the roll-out process:
  - creation of build definitions
  - documentation of the roll-out process
- support of manually tests
- technologies: Microsoft Visual Studio 2015, C#, Microsoft SQL 2016, TSQL, XML, WPF, MVVM, SOA, WCF, OOD, OOP, Telerik, EntityFramework, OpenXML, Moq, Microsoft Team Foundation Server, MS Test, MS Build, Microsoft Power Shell

11/2014 – 12/2015: Workforce Management

- strategic enhancements of the staff applications planning system of the KPMG Germany:
  - implementation of enhancements in the back-end of the staff applications planning system
  - bug analyses and repair in the front- and back-end of the staff applications planing system
  - design and implementation of automated unit tests
- conceptual design and implementation of a interface between the staff applications planning system and the Integrated Management, Planning and Controlling Tools of the KPMG Germany
- implementation of a database project for versioning of the database development:
  - creation and maintenance of post deploy scripts in the database project
- automation of the roll-out process:
  - creation of build definitions
  - creation of configuration file transformations according to the defaults of the configuration management
  - creation and enhancements of PowerShell scripts
- support of manually tests
- technologies: Microsoft Visual Studio, C#, Microsoft SQL, TSQL, XML, MVC, MVVM, SOA, WCF, OOD, OOP, Winforms, DevExpress, EntityFramework, Unity, Moq, Microsoft Team Foundation Server, Microsoft Test Manager, MS Test, MS Build, Microsoft Power Shell, Scrum

08/2014 – 08/2016: Mitan Mobile LV

- conceptual design and implementation of an Android app for data gathering of service commissioning:
  - design and implementation of a encrypted data exchange between the app and the back-end of the ERP system for enterprises Mitan4T
  - design and implementation of the data management within the Android app on hand held devices
  - design and implementation of the user interface
- conceptual design and implementation of a tool containing a reference implementation for the data exchange en- and decryption between the app and the back-end of the ERP system for enterprises Mitan4T
- technologies: Xamarin Studio, C#, JSON; MVC, OOD, OOP, Xamarin Forms, Android SDK, Android Virtual Devices, GtkSharp, Git

07/2014 – 11/2014: SDC Ticket management

- strategic enhancements of a ticket management systems for the Shared Delivery Centre of the KPMG Germany:
  - implementation of enhancements in the SDC Management Studio
  - implementation of enhancements in the administration tool SDC Admin
- conceptual design and implementation of a database project for versioning of the database development:
  - creation and maintenance of post deploy scripts in the database project

- conceptual design and implementation of automated back-end integration tests for the ticket management system
- implementation and performing of back-end load tests for the ticket management system
- technology comparing (SOAP, WCF, REST) for a refactoring of the front-/back-end communication
- technologies: Microsoft Visual Studio, C#, VB.NET, ASP.NET, Microsoft SQL, TSQL, XML, MVC, SOA, SOAP, WSDL, WCF, OOD, OOP, Winforms, DevExpress, Moq, Microsoft Team Foundation Server

12/2013 – 05/2014: WmfToWpf converter

- implementation of Windows Meta Files to Windows Presentation Foundation (canvas) converter:
  - analysis and further development of functionality of an existing library
  - further development of a WPF serialisation
- conceptual design and implementation of resource management enhancements of DATEV reporting system for commercial accounting and report editing:
  - integration of enhanced library into compatibility layer for automated conversions of OLE objects to XAML serialized Windows Presentation Foundation objects
- technologies: Microsoft Visual Studio, C#, DATEV Framework Library, XML, MVC, OOD, OOP, XAML, WPF, Microsoft Team Foundation Server

10/2013 – 05/2014: DATEV report editor

- implementation of rich gui design tool for report composition in DATEV data analyse and reporting system:
  - conceptual design and implementation of WinForms based GDI control for displaying of XAML components without usage of Windows Presentation Foundation (including free scaling of presentation)
  - implementation of visual overlays for graphical representation of report editing
  - implementation of complete needed functionality for mouse based report editing (selection of components, resizing, alignment and sliding of components, drag & drop etc.)
  - implementation of all needed context menu functions for editing of components
  - implementation of keyboard control for editing of components
- technologies: Microsoft Visual Studio, C#, DATEV Framework Library, XML, MVC, OOD, OOP, WinForms, XAML, WPF, Microsoft Team Foundation Server

06/2013 – 12/2013: Statics of jib shelf at Grosse Lagertechnik

- conceptual solution design and implementation for calculation of industrial jib shelf static
  - acquisition of geometry and load data of shelf
  - acquisition of guidelines for profiles to be used
  - statics calculation including an automated selection of best profile
  - export of shelf parts list as a file for cost calculation, product planning and production control
  - export of verifiable statics calculation as a printable document
- technologies: Microsoft Visual Studio, C#, XML, MC, OOD, OOP, WinForms, Git

05/2013 – 10/2013: Offer automation at Grosse Lagertechnik

- conceptual design and implementation of an automated generation of offers for industrial shelf
  - fetching requests form website database
  - offer calculation using Office Automation
  - calculation results transfer into ERP system (Mitan)
  - shipping of generated offers (PDF documents) via Email
- technologies: Microsoft Visual Studio, C#, VBA, Microsoft SQL, MySQL, COM, SMTP, VPN, MVC, OOD, OOP, WinForms, Git

10/2010 – 04/2013: Product launches of LORA

- product launch consulting of LORA real estate valuation solution in financial context of implementation of Pfandbrief Act respecting Basel II
  - valuation of portfolios for Federal State banks, savings banks, cooperative banking associations, private financial institutions as well as private and public valuation corporations
  - valuation of real estates for Federal State banks, savings banks, cooperative banking associations, private financial institutions as well as private and public valuation corporations
- user training and support

04/2011 – 07/2012: User documentation of LORA

- reorganisation and recreation of user documentation for LORA real estate valuation solution
  - technical integration of online help into LORA
  - integration of documentation sources into version control system
  - guideline defining for consistent presentation for online help and field manuals due to content and layout
  - guideline defining for derivation of customer and edition specific alternatives for online help and field manuals
  - migration of existing online help (extend about 300 printed A4 pages)
  - enhancement of documentation to an extend of about 5000 printed A4 pages in 12 variations
- documentation team guidance
- technologies: Help & Manual, IBM Rational ClearCase, Microsoft Team Foundation Server

02/2009 – 01/2010: Migration SchoolOffice

- porting of music school management solution SchoolOffice from database management system Borland Paradox to database management system PostgreSQL
  - creation of scripts for generation of database scheme in destination system
  - tool design and implementation for migration of data into destination system
  - adaptation of database connections in source code of SchoolOffice
  - adaptation of algorithms in source code of SchoolOffice for performance improvements
- technologies: Delphi, Borland Paradox, PostgrSQL, OOD, OOP, CVS, MVC

03/2006 – 10/2010: Strategic enhancements of LORA

- implementation of strategic enhancements of LORA in scope of real estate valuation
- design and implementation of customer specific modifications in order management for Federal State banks, savings banks, cooperative banking associations, private financial institutions as well as private and public valuation corporations
- design and implementation of various customer specific reports of order backlog in LORA
- design and implementation of customer specific invoice modules including export of clearing data for Federal State banks, cooperative banking associations and private financial institutions
- design and implementation of interfaces between LORA and other systems
  - integration into internal capital solution OSPlus of finanz informatik of savings banks
  - integration into EUROPACE solution of Hypoport AG
  - integration into Himalaja solution
  - customer specific interfaces to SAP
  - export of hypothecary values for transfer towards Verband Deutscher Pfandbriefbanken
  - integration of online data ordering to support real estate valuation in LORA
  - object survey order and report exchange for private financial institutions as well as private and public valuation corporations
  - automated exchange of orders and expertises between different LORA installations
- technologies: Microsoft Visual Studio, VB.NET, C#, Oracle, Microsoft SQL, TSQL, PostgreSQL, Access, IBM DB2, XML, SOAP, WSDL, OOD, OOP, IBM Rational ClearCase,

Microsoft Team Foundation Server, MVC, MVVC, SOA, ASP.net

01/2006 – 05/2006: Archiving of travel expense reports of Maschinenbau- und Metallberufsgenossenschaft

- conceptual tool design and implementation for transferring travel expense reports generated by travel management system REIKO 2.4 into a document management system (extend: about 32000 summary travel expense reports and about 250000 related single travel expense reports)
  - reimplementation of calculation algorithms for travel expense reports based on already existing database information
  - reimplementation of layout for summary travel management reports
  - implementation of mass print system
  - generation of approx. 32000 PDF documents containing 2 to 40 pages each
- technologies: Delphi, Object Pascal, Rave Reports, Sybase SQL Anywhere, OOD, OOP, CVS

02/2003 – 03/2006: Projects at Q-SOFT AG

- technical guidance of software development team
- student mentoring at Berufsakademie Eisenach (university of cooperative education)
- design and implementation of interfaces between A/C/S and vehicle scales
- design and implementation of an interface between A/C/S and Diamant/2 accounting system of Diamant Software GmbH & Co. KG
- design and implementation of build-tools for Gupta Team Developer 2000
- introduction of version control system CVS
  - installation and administration of server
  - guideline defining for version control system usage
  - migration of existing source code into version control system
- tool design and implementation for source code comments extraction for automated generation of a development documentation
- database scheme maintenance of A/C/S
- technologies: Gupta Team Developer 2000, Delphi, Object Pascal, Microsoft Visual Studio, C#, Oracle, Gupta SQL Base, XML, SOAP, WSDL, OOD, OOP, CVS, Plone, MVC

01/2002 – 07/2002: Projects at HERDT-Verlag für Bildungsmedien

- introduction of version control system CVS
  - installation and administration of server
  - guideline defining for version control system usage
  - migration of existing source code into version control system
- design and implementation of a statistical solution for customers order behaviour analysis
- technologies: Delphi, Object Pascal, MySQL, Perl, HTML, XML, OOD, OOP, CVS, MVC

11/2001 – 01/2002: Quality assurance at Media, Print + Online Systeme GmbH

- creation of automated regression tests scripts of a web application for insertions and advertisements management for newspapers and other periodicals
- technologies: WinRunner, LoadRunner, PHP, HTML, XML

02/2000 – 09/2001: Projects at STRATOS Reisemanagement GmbH

- product launch consulting of travel expense management solution REIKO among others at Employer's Liability Insurance Associations, old age pension insurance companies, health insurance coverage companies and other corporations under public law
- user training and support
- 2nd Level Support for REIKO

01/1999 – 01/2000: Projects at STRATOS Software GmbH

- design and implementation of strategic enhancements of REIKO in scope of operation of travel expense management
- design and implementation of interfaces between REIKO and other systems
  - export of money orders in DTAUS format
  - integration of journey planner HAFAS of HaCon
- design and implementation of a project time capturing for development project controlling
- technologies: Delphi, Object Pascal, Sybase SQL Anywhere, HTML, XML, OOD, OOP, CVS, MVC

11/1998 – 12/1998: LIM – Institute for Meteorology of University of Leipzig

- numeric simulation of noise trajectories, respecting atmospheric conditions of sound propagation for shooting noise measuring and forecast
  - implementation of physical formulas in numeric model
- technologies: Fortan

07/1996 – 03/1998: LIM – Institute for Meteorology of University of Leipzig

- numeric simulation of vaporisation and cloud forming processes in a mesoscalic model of atmosphere (GESIMA)
  - implementation of physical formulas in numeric model
  - tool design and implementation for visualisation and analysis of simulation data
- technologies: Fortran, Borland Pascal, OOP

01/1994 – 03/1994: IFT – Institute for Troposphere-Research

- numeric optimisation of geometry for outlining a linearised prism
  - design and implementation of a numeric model of optical refraction within the prism
  - implementation of optimisation by varying geometry
- technologies: Turbo Pascal

10/1992 – 11/1993: LIM – Institute for Meteorology of University of Leipzig

- tool design and implementation for digital maps capturing and visualisation for ground mapping of numeric weather models
- technologies: Turbo Pascal

VI Personal Interests

- horseback-riding (trails)
- dance
- early music