

Profile of Roger Rene Kommer

Address:

Roger René Kommer
Doernbergstrasse 11
34119 Kassel
Tel.: +49 561-780-150
Fax.: +49 561-780-135
<http://www.artefaktur.com>
<mailto:kommer@artefaktur.com>

Sub chapter pages:

Curriculum

Curriculum of Roger Rene Kommer

Skills

The main skills can be found in design and implementation of general and business based frameworks, project and development management, core software engineering with library design, Enterprise Applications Integration (also in connection with SAP R/3) and building interpreters and middleware integration.

Projects

The projects I contributed to in the past

1 Curriculum

Curriculum of Roger Rene Kommer

Name: Roger René Kommer
 Date of birth: 9/20/1966
 Place of birth: Zurich (Switzerland)
 Nationality: Swiss
 Marital status: not married

Place of residence: Doernbergstrasse 11, 34119 Kassel, Germany
 Tel.: 0561 / 780 150
 Fax.: 0561 / 780 135
 Email: [✉ mailto:kommer@artefaktur.com](mailto:kommer@artefaktur.com)

Experiences at Business	2003-2004	Consultant for Software Development for a company in logistics, material handling and warehouse management. ▶ LVR. Consultant for Software Development in transportation logistics. ▶ Webbased Logistics Solution.
	2003-2004	Developer and project manager of the OpenSource project ACDK. ▶ ACDK
	2001-2002	Consultant for Software Development for the Commerzbank AG Frankfurt. Development of a Market Data Distribution System. ▶ MDDS.
	1999-2000	Development of ACDK, and Middleware for server applications. CEO of Micromata Objects GmbH. ▶ ACDK , ▶ FriendScout24 , ▶ Atrax , ▶ AILA , ▶ ITalkIDOC , ▶ ProjectForge .
	1998-1999	Project and develop manager for develop a generic material handling system for MAN Logistics. ▶ LMF-Framework. Various smaller projects: ▶ ArcView , ▶ LynxTerm .
	1997-1998	Seniorprogrammer and project manager for a project (C++, Perl, Tk/Tk, Motif, Informix under Solaris) in german medical industry ▶ Fresenius.
	1995-1997	Independ consultant (C++ under Windows 3.1/95/NT OLE2/COM) and licenser for the US-Company Computer Associates International. ▶ PowerUser.
	1993–1995	Independent software developer (C++ under Windows 3.1/95) with own internationally acting company using upcoming internet for distribution. ▶ PowerUser.
University:	1991-1999	Development and administration of a NT-domain + internet services: ▶ ISP Database development. 1993-1995: Instructor in CAD Systems (AutoCAD) under SunOS for architecture students.
	1987-93	University of Kassel Architecture

		Degree: Engineer Diploma for Architecture (MA) 'Very good'
School education:	1987	Technical Gymnasium Schwenningen Degree: Allgemeine Hochschulreife (Abitur) NC: 1,8

2 Skills

The main skills can be found in design and implementation of general and business based frameworks, project and development management, core software engineering with library design, Enterprise Applications Integration (also in connection with SAP R/3) and building interpreters and middleware integration.

The main skills of Roger Rene Kommer can be found in:

- Design and implementation of general and business based frameworks:
 - [▢ AC DK](#)
 - [▢ LVR](#)
 - [▢ MDDS](#)
 - [▢ LMF-Framework](#)
 - [▢ PowerUser](#)
- Project and development management between 1 man month and 12 man years.
 - [▢ AC DK](#),
 - [▢ Atrax](#),
 - [▢ AILA](#),
 - [▢ LMF-Framework](#),
 - [▢ Fresenius](#),
 - [▢ PowerUser](#),
- Enterprise Applications Integration in connection with SAP R/3:
 - [▢ LVR](#),
 - [▢ ITalkIDOC](#),
 - [▢ AILA](#),
 - [▢ Fresenius](#)
- Core software engineering with library design, building interpreters and middleware integration:
 - [▢ AC DK](#),
 - [▢ LVR](#),
 - [▢ MDDS](#),
 - [▢ LMF-Framework](#),
 - [▢ PowerUser](#)

In detail:

Content of this chapter:

- ▢ IT
 - ▢ Methods
 - ▢ Operating Systems
 - ▢ Programming
 - ▢ Languages
 - ▢ Designing of programming languages
 - ▢ Middleware
 - ▢ Implemented Protocols
 - ▢ Development environments
 - ▢ Make / CASE / version management
 - ▢ Libraries
 - ▢ Compiler tools
 - ▢ Server Tools
 - ▢ Databases

- ☒ SAP R/3
- ☒ Desktop
 - ☒ Office
 - ☒ CAD
- ☒ Management
 - ☒ Leading Tasks
 - ☒ General Management
 - ☒ Project Management
 - ☒ Products
 - ☒ Product Design
 - ☒ Marketing
- ☒ Other Branches
 - ☒ Investment Banking
 - ☒ Logistics, Material Handling and Warehouse Management
 - ☒ Architecture
- ☒ Miscellaneous
 - ☒ Languages
 - ☒ Drivers license
 - ☒ Employment Permit
 - ☒ Interests outside business

☒ IT

☒ Methods

- Managed eXtrem Programming.
- OOA, OOD, OOP, UML
- Development and management following ISO 9001
- Database modelling (ERD)
- Pattern oriented design
- Aspect Oriented Programming (AOP) / Intentional Programming (IP)

☒ Operating Systems

Good experience with MS DOS, Windows 3.1, Windows 95, Windows NT / 2000, Unix (Sun Solaris, Linux, AIX, BSD, Darwin) from user, administration and programmer perspective. Experience with OS/2, MacOS and OpenStep from the user perspective.

☒ Programming

☒ Languages

- C++ & C: Expert / 'guru', over 10 years
 - ☒ ACDK,
 - ☒ LVR,
 - ☒ MDDS,
 - ☒ LMF-Framework,
 - ☒ Fresenius,
 - ☒ PowerUser,
- Java: Expert, 4 years

- [ACDK](#),
- [LMF-Framework](#),
- [Atrax](#)
- Perl: Expert, 6 years
 - [MDDS](#),
 - [FriendScout24](#),
 - [ACDK](#),
 - [GenWeb](#)
- Basic dialects (VisualBasic 1.0 – 5.0, Wordbasic, AccessBasic, etc):
project experiences, 10 years
 - [MDDS](#),
 - [ISP](#),
 - [SBSI](#),
 - [PowerUser](#)
- Tcl/Tk: project experiences, 2 years
 - [ACDK](#),
 - [Fresenius](#)
- PHP (PHP3/4): project experiences, 3 years
 - [ProjectForge](#).
- LISP (ACDKLisp, AutoCAD, Common Lisp, elisp):
project experiences, 4 years
 - [ACDK](#)
- SQL (ESQLC, Informix, ODBC, Access):
project experiences / Expert, 5 years
 - [MDDS](#),
 - [FriendScout24](#),
 - [Fresenius](#),
 - [ISP](#)
- Unix-shell programming (sh, ksh, csh, awk, sed, etc.) project experiences, 4 years
 - [MDDS](#),
 - [ProjectForge](#).
- HTML, CGI in Java, Perl, VBScript, JScript project experiences, 6 years
 - [MDDS](#),
 - [GenWeb](#),
 - [ProjectForge](#)
- UML project experiences, 5 years
 - [MDDS](#),
 - [ACDK](#),
 - [LMF-Framework](#),
 - [Fresenius](#),
 - [PowerUser](#),
 - [Atrax](#)

Designing of programming languages

Expert / 'Guru', 8 years

- C++/Java/Middleware: [ACDK](#)
- Java dialect: [ACDK](#)
- Lisp dialect: [ACDK](#)
- Basic dialect: [SBSI](#)
- Install script: [InstScript](#)
- Shell: [BSH](#)

Middleware

- CORBA (IDL):
project experiences / Expert, 5 years
 - [ACDK](#),
 - [LMF-Framework](#),
 - [Fresenius](#).
- [D]COM:
project experiences / Expert, 4 years
 - [ACDK](#),
 - [MDDS](#),
 - [PowerUser](#),
 - [BSH](#),
 - [WIOSERV](#),
 - [SBSI](#)
- XML-RPC/SOAP:
project experiences, 1 year
 - [ACDK](#),
 - [MDDS](#),
 - [Atrax](#)

Implemented Protocols

Following protocols I have implemented by myself:

- CORBA IIOP, GIOP, POA, DSI
- Sockets (TCP/IP / UDP), HTTP (Server/Client), FTP (Client)
- XML SAX and DOM
- RPC-XML (Server/Client)
- SAP RPC, IDOC (Client)
- COM, DCOM (Client/Server)
- Java JNI (Client), Serialisation (Client/Server), .class
- ODBC (Client)
- Siemens S5/S7
- Profibus
- Perl, Python and Tcl C-Interface

Development environments

- VC++ 1.0 – Visual Studio .NET (7.0),
- Borland C++ 3.0 – 6,
- Visual J++, Emacs, Watcom C++ 10.0,
- Sun Workshop C++,
- Sniff+
- gcc/g++

Make / CASE / version management

- [g]n]make (Unix/GNU),
- Rational ClearCase,
- Rational Rose,
- Rational ClearQuest,
- RCS/CVS,
- Visual SourceSave,
- ObjectDomain,
- Together++

Libraries

- ACDK (design & development),
- STL (HP, SG, ObjectSpace),
- RogueWave (Tools, Threads, DBTools),
- Borland Template Library,
- MFC,
- (D)COM/ OLE2/ActiveX,
- ATL,
- CORBA/ORB (HP, OmniOrb, Mico),
- ODBC,
- wxWidgets/wxWindows,
- GTK+,
- Qt,
- X11/Xt,
- Motif,
- OWL,
- ACE,
- YACL,
- PORTWCL own development for a portable and lean library for Windows Programming (Windows 3.1 (16bit), Win32s, Windows 95, NT 3.51, NT 4.0) for Borland C++ 4 - 5, MSC 1 - 5, Watcom 9 - 11.

Compiler tools

- Lex (Flex, Flex++) and
- Yacc (Bison, byacc, Bison++).
- Various own developments

Server Tools

- Apache: project experiences, 1 year
 - [ProjectForge](#)
 - [FriendScout24](#)
- MS IIS 1 - 4 (HTTP, FTP, telnetd), including Frontpage extensions and CGI (Java Servlets, C, Perl, ASP):
project experiences, 1 year [ISP](#)
- Email Server, MS SQL Server 6.5, MS Transaction Server,
- Firewall

Databases

Project experiences / expert: 5 years

- Own JDBC-Like Database Bridge: [ACDK](#)
- Oracle on Linux, Solaris and Windows:
 - [MDDS](#),
 - [ACDK](#),
 - [FriendScout24](#),
 - [Atrax](#)

- Sybase on Solaris: [▶ MDDS](#)
- Informix on Solaris: [▶ Fresenius](#)
- MS SQL:
 - [▶ LVR](#),
 - [▶ AILA](#)
- MySQL on Linux:
 - [▶ ACDK](#),
 - [▶ ProjectForge](#)
- Access on Windows [▶ ISP](#)
- Ingres SQL on AIX [▶ ISP](#)

[▶ SAP R/3](#)

Integration of SAP R/3 systems with other systems and legacy applications:
project experiences, 5 years

- [▶ LVR](#)
- [▶ ACDK](#)
- [▶ ITalkIDOC](#)
- [▶ AILA](#)
- [▶ Fresenius](#)

[▶ Desktop](#)

[▶ Office](#)

- Programming MS Word 5 - 6,
- Winword 1 - XP,
- MS Access 1 - XP,
- MS Excel 1 - XP.

[▶ CAD](#)

Project experiences: 2 years

- AutoCAD (10 – 2002) on SunOS/Solaris, MS DOS und Windows NT
- ArcView GIS V3.
[▶ ArcView.](#)

[▶ Management](#)

[▶ Leading Tasks](#)

[▶ General Management](#)











- Management of own engineering company: 10 years
- Executive management with 4 employees: 1 year
- Project development with customer: 8 years

- Leading a software development team: 6 years
- Complete management and execution of software projects: 8 years
- Project planning and controlling: 5 years
- Specification for tenders: 3 years
- Requirements and technical specifications, acceptance procedure: 3 years
- Establishing of QA: 3 years
- Building and Establishing of development environments: 4 years
- Redesign, Refactoring: 4 years
- Coaching of a development team: 2 years
- Planning and execution of emergency actions: 1 year
- System and user documentation: 6 years
- Setting-up operations, Support: 5 years
- Marketing of software products: 4 years
- Writing business plan: 1 year
- Negotiations with project customers, distributors, licensees and venture capital: 4 years

Project Management






- Project management between 1 man-month and 16 man-years.
- Leading development team up to 12 developers
- Project management and development management following ISO 9000/9001.

Projects:




-  [ACDK](#)
-  [LVR](#)
-  [FriendScout24](#)
-  [ProjectForge](#)
-  [Atrax](#)
-  [AILA](#)
-  [LMF-Framework](#)
-  [Fresenius](#)
-  [PowerUser](#)
-  [ISP](#)

Products

Product Design

-  [ACDK,](#)
-  [ProjectForge,](#)
-  [ITalkIDOC,](#)
-  [LMF-Framework,](#)
-  [PowerUser](#)

Marketing

-  [ACDK,](#)
-  [ITalkIDOC,](#)
-  [ProjectForge,](#)

- [▶ PowerUser](#)
- [▶ Win4Help](#)

[▶ Other Branches](#)

[▶ Investment Banking](#)

2 years project experiences.

- [▶ MDDS](#)

[▶ Logistics, Material Handling and Warehouse Management](#)

5 years project experiences, expert.

- [▶ LVR](#)
- [▶ Webbased Logistics Solution](#)
- [▶ AILA](#)
- [▶ LMF-Framework](#)
- [▶ Fresenius](#)

[▶ Architecture](#)

1 year project experiences.

- AVA (call for tenders, award of contract, accounting)
- Construction management
- Implementation und detailed planning
- Design
- CAD/GIS

[▶ Miscellaneous](#)

[▶ Languages](#)

- German: native language,
- English, 10 years
- French: basic knowledge


[▶ Drivers license](#)

Drivers licenses for cars and motor cycles.

Employment Permit

- Germany (as employee and self-employed)
- Swiss

Interests outside business

- Inside computer science:  acdk.sourceforge.net with about ~ 1,200,000 lines of codes and 3,000 classes.
- Classical music
- Architecture / art
- Classical European philosophy
- Driving bicycle

3 Projects

The projects I contributed to in the past

Sub chapter pages:

- Project LVR
Support of software development process, including introduction of ACDK as development platform. Realisation of customer projects in automatic warehouse logistics.
- Stabilisation Webbased Logistics Solution
Stabilisation, introduction of test and release management and performance tuning for a PHP/Oracle SQL solution for a company for transport logistics.
- Market Data Distribution System (MDDS)
The Market Data Distribution System (MDDS) is a server database solutions to collect, manage and distribute market data.
- ACDK (Maja Objects)
ACDK is a C++ library and application server similar to Java/ONE or C#.NET frameworks with connectors to COM, CORBA, Java and many scripting languages.
- FriendScout24
Stabilization and re-engineering of an e-commerce platform with Sun Solaris, Oracle, Apache and Perl.
- ProjectForge
ProjectForge is a web base project management tool.
- GenWeb
Content Management system for generating web sides, PDF handbooks and help files with source code documentation.
- Atrax
B2B platform based on ACDK, Oracle, Java, XML.
- ITalkIDOC
SAP R/3 connection for ACDK.
- AILA - Constructor
Implementation of a SAP R/3 connection for Aircabin/DASA using ITalkIDOC.
- LMF-Framework
For MAN Logistics GmbH I designed as project and development manger a material handling and simulation system.
- Project ArcView - Team Heese
For the Team Heese AG I developed an interface between ArcView GIS to MS Access using Visual Basic
- LynxTerm
Extension of the text base web browser lynx for usage as GUI in wireless terminals in logistics.
- Fresenius
Software development as project manager and senior developer in logistics, material handling and warehouse management.


- PowerUser, Computer Associates Intern.
New Menus for Windows is a X-Window like window manager for Windows 3.1, Windows 95 and NT.
- Basic Shell
A scripting shell for Windows 3.1 - Windows NT.
- Windows IO-Server
A text terminal implementation for Windows 3.1 and Windows 95/NT as OLE control.
- Simple BasicScript Interpreter
A Basic interpreter with Wordbasic compatible GUI elements as COM component.
- Win4Help
Integrates the extended features of the Windows 95/NT 4.0 help in your Windows 3.1 help files.
- University of Kassel, ISP
All-round IT support for a library of the University of Kassel, including database programming.

3.1 Project LVR

Support of software development process, including introduction of ACDK as development platform. Realisation of customer projects in automatic warehouse logistics.

Time:	2003-2004
Customer:	Midrange enterprise for warehouse and logistics systems
Position:	Troubleshooting, Development, Consulting, project realisation
Technologies:	C++, ACDK, SQL 2000, MFC, Logistics, Material handling, warehouse

More information is available on German version of this page:

 [Lagerlogistik](#).

3.2 Stabilisation Webbased Logistics Solution

Stabilisation, introduction of test and release management and performance tuning for a PHP/Oracle SQL solution for a company for transport logistics.

Time:	2003-09
Customer:	enterprise for transportation logistics
Position:	Troubleshooting, Development, Consulting
Technologies:	Oracle SQL, PHP, transport/distribution planning, Logistics

3.3 Market Data Distribution System (MDDS)

The Market Data Distribution System (MDDS) is a server database solutions to collect, manage and distribute market data.

Time:	2002-03 - 2003-12
Customer:	Commerzbank AG Frankfurt
Position:	Software development
Technologies:	C++, Solaris E10000, NT 4, SQL, Sybase, Asset Control, Perl, PHP, TCP/IP, XML, Apache, COM, VisualBasic, Access, Excel, Rational Rose, ClearCase, Purify, GenWeb, Client-Server Architecture

Description The Commerzbank AG developed a new collection and distribution system for financial instruments. The market data provided by several distributors (Reuters, Bloomberg) are collected, normalized, prioritized and snapshotted into a database system. The quality assured data will be provided for internal use of the Commerzbank AG. The market data contains static properties of financial instruments (Trading place, currency, time duration, underlying instruments, etc) and dynamic data, mainly prices (tick by tick prices, high/low prices, etc) The static data is held by a Sybase SQL database. The dynamic data is managed by a system called "Asset Control".

Common Tasks

- C++ development under Solaris (Sun Workshop, Emacs, Sniff+) and NT (Visual Studio 6) with all aspects using STL and boost.
- Coaching of developer team members.
- Guidance of a software developer team (2-5 developer).
- Consulting and support of external users and developer.
- Perl development.
- COM development.
- Writing system and user documentation.
- Basic/Excel development.
- Consulting the project management.

Technical tasks

- Design and development of a C++ interface for a DBMS ("Asset Control"). Implementation of queries of dynamic market data.
- Design and development of basic framework classes: threading, logging, job scheduling, generic types, AnyVal types, property sets, exceptions, socket streams, etc. for Solaris and Windows NT.
- Design and development of an application server using sockets and file transfer with XML and binary data: Market Data Customer Interface (MDIF).
 - Specification of the public request interface of the MDIF.
 - Design and development of an alternative C++ interface for usage with Java.
 - Design and development of a COM interface.
 - Design and development of Excel sheet using the COM interface to query market data.
 - Design and development of a distributed communication server to query market data.

- Development of a documentation system on base of von HTML, PDF und HTMLHelp using [GenWeb](#).
- Design and development of a web based application for monitoring and controlling of the MDDS using Apache 2, Perl, C++, PHP, GenWeb
 - Log file analysis
 - Query of the financial instruments
 - Statistics of the workload of the E1000 server system.
 - Statistics for MDDS customer accounting
 - Error terminal
 - Scheduling control of the batch jobs and server processes.
 - Plug-in interface for customer specific reports
 - Graphical display of the statistics
 - Integrated help system.

Developer Tools

- Solaris (E4500 & E10000)
- NT 4.0
- Sun Workshop 4.x - 5.2
- Sniff+
- Visual Studio 6
- Sybase
- Asset Control
- Rational Rose, ClearCase, Purify, ClearQuest
- GenWeb

More information is available on German version of this page:

[Projekt MDDS](#).

3.4 ACDK (Maja Objects)

ACDK is a C++ library and application server similar to Java/ONE or C#.NET frameworks with connectors to COM, CORBA, Java and many scripting languages.

Time:	1999 - 2003
Customer:	several customers, in-house
Position:	Executive, developer, development manager
Technologies:	C++, Java, compiler compiler, COM, CORBA, SQL, XML, Perl, Python, PHP, Tcl, Lisp, TCP/IP

ACDK is a development framework with a similar target of Microsoft's .NET or Sun's ONE platform, but instead of using Basic/C# or Java as programming language, it bases C++ as core implementation language.

ACDK implements the standard library packages, including `acdk::lang`, `acdk::lang::reflect`, `acdk::util`, `acdk::io`, `acdk::text` (including `regexpr`), `acdk::net`, `acdk::sql`, `acdk::xml` and more. Today's technologies like flexible Allocator/Garbage Collection, Threading and Unicode are

implemented in the core of ACDK.

With the extensions of ACDK C++ objects are available for reflection, serialization, aspect oriented class attributes and [D]ynamic [M]ethod [I]nvocation. This DMI act as an universal object oriented call interface to connect C++ with scripting languages (Java, Perl, Tcl, Python, Lisp, Visual Basic, VBScript) and standard component technologies (CORBA, COM+).

For more information please refer to:

- German: [D ACDK](#).
- [E http://acdk.sourceforge.net](http://acdk.sourceforge.net)

3.5 FriendScout24

Stabilization and re-engineering of an e-commerce platform with Sun Solaris, Oracle, Apache and Perl.

Time:	2000-06 2000-8
Customer:	FriendScout24
Position:	Executive, project management, development
Technologies:	Sun Solaris, Oracle, Fast-CGI, Perl

The company FriendScout24 provides a popular dating service (see [E www.friendscout24.de](#)). Micromata_ objects implemented urgent stablization and performance improvements an existent Perl/Oracle web based software. Following major parts of the software was redesigned and refactored.

3.6 ProjectForge

ProjectForge is a web base project management tool.

Time:	2000
Customer:	Inhouse, Customers
Position:	Executive, project management, Marketing, Development
Technologies:	PHP, CMS, MySQL, Perl, Shell, Linux

ProjectForge is a collaboration platform based on SourceForge modified to handle all aspects of software project in industry. More information is available on German version of this page: [D ProjectForge](#).

3.7 GenWeb

Content Management system for generating web sides, PDF handbooks and help files with source code documentation.

Time:	2000-2003
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Customer:	Micromata_group, In-house, Commerzbank AG
Position:	Development, executive, Consulting
Technologies:	Perl, PHP, CMS

Genweb is a documentation tool and CMS written in Perl.

It was used by the Micromata_group for project and product documentation. It also was used for technical and user documentation for the project [MDDS](#) inside the Commerzbank AG.

- Simplified HTML.
- Automatically resolved links.
- Template based.
- Integrated document management.
- Integration of code documentation.
- Output format as HTML, MS HtmlHelp, JavaHelp, MS Word, PDF, Unix man pages, ASCII text.
- Edit/compile web pages online.
- Conditional compiling

This text is also written using Genweb.

See also:

- Web-Side <http://acdk.sourceforge.net>
- [PDF example of the same source](#)
- [HtmlHelp example of the same source.](#)

3.8 Atrax

B2B platform based on ACDK, Oracle, Java, XML.

Time:	2000
Customer:	Dialog AG
Position:	Executive, project management, development, consulting
Technologies:	ACDK, C++, Java, XML, Oracle, RPC

More information is available on German version of this page: [Atrax](#).

3.9 ITalkIDOC

SAP R/3 connection for ACDK.

Time:	2000
Customer:	Inhouse, Constructor GmbH, Micromata_logistics GmbH
Position:	Executive, product design, project management, development, marketing
Technologies:	ACDK, C++, SAP R/3, SAP RPC, SAP IDOC, Oracle

For a generic connection of SAP R/3 to C++, Java, Perl, Tcl or Database software I developed with my employees a library based on the ACDK framework. The library made the

SAP RPC IDOC data tables via a collection API available.

Because the library based on ACDK it was also possible to connect the SAP R/3 interface to:

- C++
- SQL Databases (Oracle, ODBC)
- XML or text formats via TCP/IP.
- COM and CORBA
- Java
- scripting languages, like Perl, Python, Tcl, Lisp

See also:

- [▶ AILA](#)
- [▶ LMF-Framework](#)
- [▶ Fresenius](#)

3.10 AILA - Constructor

Implementation of a SAP R/3 connection for Aircabin/DASA using ITalkIDOC.

Time:	2000
Customer:	Constructor GmbH, Aircabin GmbH, Micromata_logistics GmbH
Position:	Project management, consulting, executive
Technologies:	ACDK, C++, SAP R/3

For warehouse of the Aircabin GmbH (company subsidiary of DASA/DC group) in Laupheim the Constructor GmbH needs a connection of their warehouse software to a SAP R/3 system.

We used ITalkIDOC ([▶ ITalkIDOC](#)) to implement the bridge within a couple of weeks.

3.11 LMF-Framework

For MAN Logistics GmbH I designed as project and development manager a material handling and simulation system.

Time:	1999
Customer:	MAN Logistics GmbH
Position:	Project manager, development manager, developer
Technologies:	C++, Java, CORBA, SQL, Logistics, Material handling, warehouse

More information is available on German version of this page:

[▶ LMF-Framework](#).

3.12 Project ArcView - Team Heese

For the Team Heese AG I developed an interface between ArcView GIS to MS Access using Visual Basic

Time:	1998
Customer:	Team Heese AG
Position:	Development, consulting
Technologies:	ArcView GIS, MS Access, Visual Basic, DDE

3.13 LynxTerm

Extension of the text base web browser lynx for usage as GUI in wireless terminals in logistics.

Time:	1998
Customer:	INIS GmbH
Position:	Development
Technologies:	C, HTML, HTTP, VT100

For the usage as generic solution of vt100 terminals in Logistics I modified the OpenSource text browser Lynx. The idea is that the web server sends special markup codes to customize lynx:

- Deactivate standard features of Lynx like history, favorites
- Standard keyboard mapping (like 'q') must be deactivated.
- Links must be available via multiple hotkeys.
- Internal browser functionality (Quit, Back, etc.) are customizable.
- Because the lynx browser runs on a terminal server with up to hundreds instances the memory footprint will be minimized through usage of shared libraries.

3.14 Fresenius

Software development as project manager and senior developer in logistics, material handling and warehouse management.

Time:	1997-03 - 1997-12
Customer:	INIS GmbH, IRS GmbH, MAN Logistik, Fresenius AG
Position:	Development and project management, development
Technologies:	C++, Sun Solaris, Informix, ESQL, SAP R/3, Perl, Tcl, Motif, Logistics, Material handling, process engineering, warehouse software, UST, OSI, wireless terminal, robot control

Content of this chapter:

- Description
- Tasks as project manager
- Tasks as development manager
- Tasks as developer

Description

The company Fresenius AG builds a new logistic central in Friedberg with a warehouse. Lager More information is available on German version of this page: [Fresenius](#).

Tasks as project manager

- Consulting the executive.
- Meetings with involved companies.
- Writing requirement specifications.
- Supervision of the project following ISO 9001.

Tasks as development manager

- Organization of the developer team.
- Directing and guide a team of 9 developers.
- Selecting developer tools.
- Creating function and schedule plans.
- Creating and executing test plans.
- Coordination with involved companies.

Tasks as developer

- Redesign of the interface to the SAP R/3 warehouse system.
- Review of the interface to the logistic hardware systems.
- Design and development of a multileved model for the warehouse system, material flow, and robot control.

Developing a simulation of the material flow including visualization:

- to test if the function specification is working with the used logistic material handling hardware.
- to test of modules of the material flow system.
- to test the system in cooperation with warehouse system and underlying hardware components.


More information is available on German version of this page: [Fresenius](#).

3.15 PowerUser, Computer Associates Intern.

New Menus for Windows is a X-Window like window manager for Windows 3.1, Windows 95 and NT.

Time:	1993-1997, 1995 - 1997 for Computer Associates
Customer:	Computer Associates International (CA), end customers
Position:	Development, executive, marketing
Technologies:	C++, Windows 3.1/95/NT, OS/2, COM, Window-Manager

During my studies I wrote in my spare time a program and desktop manager for Windows 3.1 similar to the OpenLook Window Manager mainly to learn the C++ programming language. I distributed this program via internet and received much positive feedback. In the 2 year I market 'New Menus for Windows' as shareware with distributors in Germany, USA, Japan and France.

In 1995  Computer Associates International contacted me asking for a license to include my program into CA product named 'HomePlace'. Including the license agreement with CA I had to port 'New Menus for Windows' (now called 'PowerUser') for Windows 95, Windows NT and OS/2 in the next 2 years.

CA wanted to sell the package mainly in Japan and USA in 5-7 million units in the first year. HomePlace was a graphical shell on top of the Windows GUI to provide the functionalities, like Programs, Files, email, shopping in different metaphors, in the range of a reduced and restricted interface for child and 'PowerUser', aka 'New Menus for Windows', which gives the user workstation feeling on the personal computer.



The introduction screen of HomePlace

Because CA only obtains a non exclusive license, in this time I also marked the new version as 'New Window Window Manager'.

Features:

- Free Popup menus, associated with mouse/hotkey.
- Popup menus can be sticked as persistent window.
- These windows can be displayed as explorer like windows, NortonCommander like windows, and NextStep file manager.
- Windows 95 'Taskbar' clone supporting.
- Supports Windows 95 native Taskbar
- Virtual Desktop.
- Enhancing system menu of programs.
- User defined pop menu enhancements for all windows applications, which can extend the applications functionality.
- 4 different look and feels (NMWM was one of the first programs supporting style schemes or skins, later can found in Java Swing library, the KDE or Gnome window manager or the Windows XP shell)
- The displayed items - displayed in the different containers - can be
 - User defined program links

- Links to the file system, which supports also ZIP, ARJ, RAR, etc. as virtual file system
- Windows 95 COM shell items
- Program-Manager items (Windows 3.1, NT 3.51).
- Internal NMWM items, like Clock, Virtual Desktop, CPU-Meter, Disk-Usage, etc
- All file, clipboard and drag and drop operations (Windows 3.1 and COM)

Because the original code of NMFWM was only written for Windows 3.1, and some code still was from my first steps in the C++ programming language, I completely rewrote the code for PowerUser/NMWM:

- Object oriented abstraction of the GUI API of Windows 3.1, Windows 95 and OS/2 Workplace (OS/2 was removed from the requirements later).
- Portable Code for MS, Borland and Watcom compiler.
- Portable 16 and 32 bit code.
- On top of portable GUI API an object oriented framework with interfaces to support user defined GUI elements (for example the scroll bars looks and behave different in the different styles).
- An interface framework to support generic file manger/shell/workplace
 - Items (display with icon, text or details, act on click, context sensitive configuration dialog box, expand if item represent a folder
 - Container which acts as frame to items, which can be displayed as list, popup menu, hierarchical list, Taskbar notification items, desktop items, NextStep like file manger/boards, etc.
 - Style interfaces are used to render Items and Container.
- Replacement for GUI-Controls, which are not supported on all platforms, like tabbed dialog boxes.

In connection with PowerUser/NMWM I wrote some spin-offs:

- [▶ Win4Help](#)
- [▶ WIOSERV](#)
- [▶ BSH](#)
- [▶ SBSI](#)

Some pictures are available on the German pages:

- [DE Styles.](#)
- [DE Container.](#)

3.16 Basic Shell

A scripting shell for Windows 3.1 - Windows NT.

Time:	1997
Position:	Development, executive, marketing
Technologies:	C++, Windows 95/NT, COM

To support the enhanced file and desktop management operation via command line I developed a command line interpreter, similar to command.com/cmd.exe and some bash enhancements.

It works as a plug-in to [▶ WIOSERV](#).

3.17 Windows IO-Server

A text terminal implementation for Windows 3.1 and Windows 95/NT as OLE control.

Time:	1997
Customer:	Computer Associates, end customers
Position:	Development, executive, marketing
Technologies:	C++, Windows 3.1/95/NT, COM

WIOSERV is a GUI COM component, which provides an ANSI and VT100 compatible text console. Works in connection with [B](#)SH.

3.18 Simple BasicScript Interpreter

A Basic interpreter with Wordbasic compatible GUI elements as COM component.

Time:	1997
Customer:	End user/developer
Position:	Development, Marketing
Technologies:	C++, Windows 3.1/95/NT, COM

SBSI is a MS Word Basic compatible basic interpreter supporting also the MS Word Basic dialog boxes. It also supports calling native C functions including the Windows API. It was designed to write installation procedures and other common tool scripts.

3.19 Win4Help

Integrates the extended features of the Windows 95/NT 4.0 help in your Windows 3.1 help files.

Time:	1996-1997
Customer:	End user
Position:	Development, marketing
Technologies:	C++, Windows 3.1

Win4Help is a utility for Windows 3.x, which expands some functionality of WinHelp.exe, interesting for end user and developer.

The new 32bit WinHelp supports Content files (*.CNT), which gives the user an hierarchical overview to the help file. Win4Help hooks into the Windows 3.1 WinHelp function and displays also the dialog box for content tree, if there is a CNT-file.

I also build in a few other goodies:

- It is possible to make a full text search in the help file.
- It is possible to export the complete text of the help file into a text file.

3.20 University of Kassel, ISP

All-round IT support for a library of the University of Kassel, including database programming.

Time:	1993-2000
Customer:	University of Kassel, Information System Planning (ISP)
Position:	Development, administration, support
Technologies:	MS Access, AIX, Ingres, C++, Windows 95/NT, Java Servlets, C++ CGI Servlets. NT, IIS, Web, FTP, email administration

The Information System Planung is a library specialized to the branches Architecture, landscape and town planning of the University of Kassel:

- Collects and provide all students works.
- Sell publications.
- Provide access to geographic maps.
- Collect and provide films and television recordings.
- Collect and provide related newspaper articles.

My tasks:

- Porting a legacy DB application from Siemens BS 2000 to Ingres on AIX.
- Rewrite the DB application for MS Access.
- Developing input forms, queries and reports.
- Developing Web with query forms.
- Establish MS Windows server with client PCs.
- Support user.