

SYSTEM ARCHITECT

PROJECT MANAGEMENT

PROJECT LEAD / TEAM LEAD

CONSULTANT SYSTEM MANAGEMENT

OPERATING SYSTEMS (UNIX/LINUX, ...)

DATABASES (ORACLE, SQL, ...)

DEVOP / OAM

AUTOMATION / SCRIPTING

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In over 30 years of professional experience, a lot of information has accumulated. That is why this CV is structured as follows.

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## 1 In general

As a self employed consultant, I offer my support in many areas of IT. System analysis includes in addition to the analysis also consulting and support in the implementation.

My activities in the last years implied a wide range of different tasks, so I do not necessarily want to speak of a focal point. Mostly I'm involved with applications that run on Unix or Linux and have databases (Oracle or MySQL) as a basis. The client interface is e.g. based on J2EE, a web interface or anything else. All combinations are possible in an heterogenous environment.

In these environments I'm facing usually different tasks on the technical level. From general environment support to (further) development of scripts (bash, ksh, Perl, etc.) for small, but larger tasks, often automation / migration, etc., etc.

With the overview gained over the years I'm increasingly in roles, where you find „Management“ in the description: Configuration management, release management, project management, application management, incident management and so on, also tasks where system architecture is needed – or acting as team lead.

Rapid incorporation of new subjects, always remaining at the „cutting edge“ with the basic topics, process oriented work, every time keeping the customer's requirements in focus, etc. are as a matter of course in my work.

## 2 Overview

### 2.1 Experience

- System analysis, system architecture, technical architect
- Project management, configuration management, release management
- Environment management, application management
- ITIL, Kanban, Scrum
- System and database administration (Unix, Oracle)  
(development, test, operation)
- Software development  
(Scripting from small tools to large frameworks)
- Software test, quality assurance
- System consulting (system's management and database environment)
- Trainings (Oracle database backup, ...)

### 2.2 Industries

- Bank (data center, brokerage, financial services)
- Consulting (IT, health care, medical technology)
- Retail industry
- Hard- and software manufacturer
- Industry (automotive, chemical industry, electro-technics, engine building, pharmaceutical industry)
- Internet service provider (ISP/ASP))
- Logistics
- Public service
- Post
- Telecommunications (mobile)
- University
- Publishing
- Health assurance

## 2.3 Environment

- Linux / Unix
- Databases
- Test, operation
- Analysis, consulting, migration

## 2.4 Languages

German - C2 - native language

English - C1 - trainings and certificates in English

French - A1 - basic

Spanisch - A1 - basic

Greek - A1 - basic

ancient Greek

Latin

## 3 Details

Products are always a matter of change. They improve or there are always new ones. Of course the tools that are used now are much more present as the older ones. The list you find here is just an overview of the variety of products, I used over the time ...

### 3.1 Standards

ITIL   best practices   Kanban   Scrum   cmdb

### 3.2 Operating systems

Linux   Linux RedHat   Red Hat Enterprise Linux   Enterprise Linux  
 SUSE Linux Enterprise Server   Solaris   SUN OS, Solaris   Sun/Solaris  
 Unix   HPUX - 10.20 bis 11.31   IBM AIX - 4.2 bis 4.3   VMS - 4.x bis 5.x  
 AWS   OpenShift  
 Mac OS - seit 7.5   CygWin   Windows   Windows-Server   wsl   MS-DOS

### 3.3 Databases

Oracle - since 7.3.2 - installation, administration, backup  
 MS Access - 2.0 to 2011 - design, implementation, administration  
 Sybase / DB2 - development of an interface  
 DB2 - Applikation management of DB2 based applications  
 MySQL - since 3.23 - Application development   ODBC   SQL   PL/SQL  
 Postgres   DB2   Informix   Sybase   MS SQL Server  
 Proprietary DB - dBase 2 and 4   Access - 2.0 to 2011

### 3.4 Tools / Products

Skript languages vi awk sed cvs git GitLab LaTeX Markdown  
 XML  
 Apache Webserver JBoss Tomcat OpenLiberty Glassfish  
 BEA Weblogic Oracle Application Server (OAS / iAS)  
 Docker Kubernetes Jira Confluence JDK JEE/J2EE Jenkins Nexus  
 TOAD Eclipse CA Nolio Graylog PEGA  
 Monitoring BMC Patrol Nagios Zabbix Icinga Instana Grafana  
 Kibana Netcool HP Servicemanager  
 Service Now Bugzilla ARS Remedy ClearCase ClearQuest  
 Oracle Business Intelligence (OBIEE) Oracle Warehouse Builder (OWB)  
 Oracle Workflow (OWF) SQL Backtrack - Database backup  
 Peoplesoft CRM Dokumentum Dimensions CyberArk  
 MS Office MS Excel MS Word MS Powerpoint MS Access MS Project

### 3.5 Programming languages

Skript languages - bash, ksh, awk, PSL, ... bash KornShell (ksh)  
 Shell (sh) csh tsh awk Perl Python JavaScript PHP DCL  
 ansible Puppet Tcl/Tk Basic C C++ Oracle/SQL PL/SQL  
 TeX, LaTeX Assembler Pascal Java - (only *reading* !!)

### 3.6 Data communication

Ethernet Internet, Intranet ISDN ISO/OSI LAN, LAN Manager  
 Message Queuing RS232 ssh, scp, telnet, ftp, sftp TCP/IP  
 Windows Netzwerk

## 3.7 Hardware

SUN - Unix-Server- and Workstations

HP - Unix-Server

IBM RS6000 - Unix-Server

VAX - MicroVAX, VAXStation 2000, 750

Digital - Vax und Alpha

Alpha

Ascii/X - Terminals

Modem - ZyXEL, US Robotics

Proprietary HW - ISDN Telephone systems with Unix kernel

Printer - Application development in a printer proprietary language

Macintosh - Quadra 800 to ARM based Mac

PC

Atari



## 4 Projects

<b>Duration</b>	<b>10/2023 - now</b> (50)
<b>Role</b>	<b>Technical consultant</b>
Environment	Linux, AWS, wsl, bash, ssh, Python, Markdown, Graylog, Instana
<b>Project</b>	<b>Digitalisation transport associations</b>
Customer	Logistics
Location	HomeOffice, Frankfurt
Tasks	<ul style="list-style-type: none"> <li>– Loganalysis (file based) and with Graylog and Instana</li> <li>– Rollout of data in test and production environment</li> </ul>

<b>Duration</b>	<b>04/2023 - 09/2023 (6 months)</b> (49)
<b>Role</b>	<b>Technical consultant, architect, developer</b>
Environment	Linux, bash, ssh, ansible, Python, Markdown
<b>Project</b>	<b>Development of automation solutions</b>
Customer	Small sized company
Location	HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Conception and development of individual automation solutions in bash, ansible and Python</li> </ul>

<b>Duration</b>	<b>01/2021 - 04/2023 (2 years, 4 months)</b> (48)
<b>Role</b>	<b>Application manager, environment manager, technical consultant, architect, team lead</b>
Environment	RedHat Enterprise Linux, Oracle, bash, ssh, ansible, Python, git, GitLab, ITIL, Kanban, Jira, Service Now, Confluence, BitBucket, Postgres, Markdown, Graylog
<b>Project</b>	<b>Transformation of bank applications and operation</b>
Customer	Bank
Location	HomeOffice, Nuernberg
Tasks	<ul style="list-style-type: none"> <li>– Development and operation of application environments for several clients from test to production as part of the introduction / replacement of banking software, successive transition from host to Linux</li> <li>– Automation of environment workflows (definition, setup, test, operation)</li> <li>– Conception, adaptation and installation of processes for operational management in the transition from project to operational mode</li> <li>– Conception, implementation and further development of ansible-based deployments for multiple clients</li> <li>– Conception and development of a company portal, centralised information presentation and process control</li> <li>– Conception and development of operational scripts in bash, ansible and Python</li> <li>– Team lead OAM (operation administration and maintenance)</li> <li>– Installing and patching the applications</li> <li>– Coordination and implementation of problem solving with the specialist departments (process and log analyses)</li> <li>– Management of external service providers</li> <li>– Support for migration between data centres</li> <li>– Writing technical documentation</li> </ul>

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<b>Duration</b>	<b>10/2019 - 12/2020 (1 Jahr, 3 months)</b> (47)
<b>Role</b>	<b>Application manager, environment manager, technical consultant, architect, developer</b>
Environment	RedHat Enterprise Linux, Solaris, DB2, PEGA, bash, ssh, sql, Postgres, Docker, Jenkins, Scrum, ITIL
<b>Project</b>	<b>Application-Management</b>
Customer	Insurance
Location	HomeOffice, Hamburg, Frankfurt
Tasks	<ul style="list-style-type: none"> <li>- Operation support of PEGA based applications</li> <li>- Development of operation supporting scripts in bash</li> <li>- Planning and development of a deployment framework for PEGA applications (from packaging to deployment with different parameters depending on the environment))</li> <li>- Planning and development of interface monitoring in bash</li> <li>- Planning and development of a customised CMDB</li> <li>- Planning the integration in a new operating environment with Docker and Jenkins</li> </ul>

<b>Duration</b>	<b>04/2018 - 09/2019 (1 Jahr, 6 months)</b> (46)
<b>Role</b>	<b>Application manager, environment manager, technical consultant</b>
Environment	RedHat Enterprise Linux, Solaris, Oracle 12, bash, Perl, ssh, Oracle/SQL, HP Servicemanager, JavaScript, AWS, Scrum, ITIL, Kibana, Netcool, Service Now, (WindowsServer)
<b>Project</b>	<b>Operation support</b>
Customer	Logistics
Location	Frankfurt, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>- Support during the migration of a large application landscape to the AWS Cloud</li> <li>- Operation and updating of the old systems</li> <li>- Operation of the new system</li> <li>- Second-Level-Support, Incident Management, Change Management, Monitoring, Application Support</li> <li>- Development of operation supporting scripts in bash, perl, SQL and JavaScript</li> </ul>

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<b>Duration</b>	<b>12/2015 - 03/2018 (2 years 4 months)</b> (45)
<b>Role</b>	<b>Architect, developer, environment manager</b>
Environment	Apache, JEE/J2EE, JBoss, Eclipse, cvs, OpenSource, bash, ssh, awk, Perl, XML, Confluence, ITIL, Unix, Sun/Solaris, RedHat Enterprise Linux, Apache Tomcat, Jenkins, Oracle/SQL, Git, Puppet, Nagios, PL/SQL, Ansible, CyberArk, Toad for Oracle, Oracle APEX, CA Nolio, CygWin, Icinga, Service Now
<b>Project</b>	<b>Support of system management</b>
Customer	Bank
Location	Nuernberg, Frankfurt
Tasks	<ul style="list-style-type: none"> <li>– Environment Support of a large environment</li> <li>– Development of operation supporting scripts in bash, awk, perl and SQL e.g. development of an interface to CMDB, Script-supported password change (CyberArk, JBoss, XML)</li> <li>– Customisation of the infrastructure database (APEX, PL/SQL)</li> <li>– Installation, Rollout, Software distribution</li> <li>– Revision and expansion of procedural instructions</li> </ul>

<b>Duration</b>	<b>09/2015 - 12/2015 (4 months)</b> (44)
<b>Role</b>	<b>Environment manager, DevOp, technical consultant</b>
Environment	Linux, Oracle, bash
<b>Project</b>	<b>Process automation in testing and operation</b>
Customer	Finance
Location	Wiesbaden, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Development of tools in the environment management of test and operation</li> </ul>

<b>Duration</b>	<b>10/2014 - 08/2015 (11 months)</b> (43)
<b>Role</b>	<b>Environment manager, DevOp, technical consultant</b>
Environment	Linux (SLES 10), Oracle 11, bash, Control-M, Glassfish
<b>Project</b>	<b>Process automation for provisioning of test environments</b>
Customer	Multichannel retail
Location	Hamburg, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– provisioning of test environments</li> <li>– development of a frameworks for the automated execution of process steps</li> </ul>

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<b>Duration</b>	<b>07/2014 - 09/2014 (3 months)</b> (42)
<b>Role</b>	<b>Sub-project coordination, technical consultant</b>
Environment	Linux, Oracle, Tomcat, JBoss, Apache, bash
<b>Project</b>	<b>Relocation of applications to a new data centre with platform change</b>
Customer	Financial service provider
Location	Heidelberg, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Coordination in the area of setting up the new environment and data transfer</li> <li>– Accompanying technical consulting</li> <li>– Preparing the handover of the business</li> </ul>

<b>Duration</b>	<b>01/2014 - 07/2014 (7 months)</b> (41)
<b>Role</b>	<b>Environment manager, DevOp</b>
Environment	Linux, Tomcat, Apache, Oracle, bash, Jenkins, Nexus, git
<b>Project</b>	<b>Integration of Internet-based services in cars</b>
Customer	Automotive industry
Location	Ingolstadt, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Software installation, application deployment (CIP)</li> <li>– Troubleshooting</li> <li>– Building environments (development, test, production)</li> <li>– Development of operation supporting scripts in bash</li> <li>– Maintenance of system documentation</li> </ul>

<b>Duration</b>	<b>06/2013 - 11/2013 (6 months part time)</b> (40)
<b>Role</b>	<b>Architect, developer</b>
Environment	Linux, Windows, CygWin, JEE/J2EE, JBoss, MySQL, DB-Visualizer, OpenSource, bash, ssh, sql
<b>Project</b>	<b>Improvement of the release process</b>
Customer	Medium-sized company
Location	Erlangen, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Analysis of the implemented processes, conception of further development and migration to the new processes</li> <li>– Conception and development of scripts in the release process</li> </ul>

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<b>Duration</b>	<b>02/2012 - 12/2013 (1 Jahr 11 months)</b> (39)
<b>Role</b>	<b>Architect, developer, environment manager</b>
Environment	Unix (Red Hat Linux, Solaris), Apache, JEE/J2EE, JBoss, Eclipse, cvs, OpenSource, bash, ssh, awk, Perl, UC4, XML, Confluence, CygWin, ITIL
<b>Project</b>	<b>Support of system management</b>
Customer	Bank
Location	Nuernberg, Frankfurt
Tasks	<ul style="list-style-type: none"> <li>– Environment support of a large environment</li> <li>– Development of operation supporting scripts in bash, awk and perl, e.g. automated configuration data generation(puttycm, winscp, ...) universal control core for general process chains (ssh)</li> <li>– Incident handling</li> <li>– Installation, rollout, software deployment</li> <li>– Participation in the concept development for a new deployment solution</li> </ul>

<b>Duration</b>	<b>05/2011 - 12/2011 (8 months)</b> (38)
<b>Role</b>	<b>Architect, developer, application manager, release manager</b>
Environment	Unix (Solaris, Linux), ULLINK, Oracle 11g, ksh, bash, sh, Perl, Dimensions, cvs, BEST, ORC, FIX, XML, TOAD
<b>Project</b>	<b>Support in the commissioning of trading software (ULLINK) in an international environment for the networking of trading systems</b>
Customer	Bank
Location	Muenchen
Tasks	<ul style="list-style-type: none"> <li>– Coordination of work processes</li> <li>– Contact for development (France) and business (Italy)</li> <li>– Development of a framework to simplify the release installation</li> <li>– Development of scripts to extend application monitoring, integration in HP OpenView</li> <li>– Development and support of the environments (development, test, production)</li> <li>– Transfer from project to regular operation</li> </ul>

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<b>Duration</b>	<b>01/2011 - 04/2011 (4 months)</b> (37)
<b>Role</b>	<b>Architect, developer</b>
Environment	Perl, Oracle, mySQL, Unix (Solaris, Linux)
<b>Project</b>	<b>Operation support</b>
Customer	Telecommunications company (mobile network)
Location	Buedelsdorf
Tasks	<ul style="list-style-type: none"> <li>– Operational support for the implementation of a new CRM solution</li> <li>– Development (Perl, MySQL) of a solution for collecting and analysing log files on distributed systems, documentation</li> </ul>

<b>Duration</b>	<b>08/2010 - 02/2011 (7 months)</b> (36)
<b>Role</b>	<b>Consultant, architect, developer</b>
Environment	Oracle (10g, 11g), Unix (Solaris, Reliant), Documentum, Informix, MS Access 2007, TOAD
<b>Project</b>	<b>Operation support</b>
Customer	Federal authority
Location	Koeln, HomeOffice
Tasks	<ul style="list-style-type: none"> <li>– Operational support for a release change/upgrade of several components (Oracle, Documentum, data migration)</li> <li>– Analysis of an existing system, architecture of the cleansing process, realisation of data preparation, enrichment and cleansing (Informix, Access, SQL)</li> </ul>

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<b>Duration</b>	<b>01/2009 - 06/2010 (1 Jahr 6 months)</b> (35)
<b>Role</b>	<b>Application manager, environment manager, administrator</b>
Environment	Oracle (RDBMS, OWB, OWF, OBIEE, OAS, MapViewer), Unix, TOAD, DB-Visualizer, ITIL
<b>Project</b>	<b>Product launch Oracle Business Intelligence as the basis for a procedure for the geographical and temporal evaluation of processes of different classifications</b>
Customer	State authority
Location	Wiesbaden
Tasks	<ul style="list-style-type: none"> <li>– Introduction of a new process based on Oracle software</li> <li>– (Oracle Business Intelligence Enterprise Edition, Oracle Application Server, Oracle Warehouse Builder, Oracle Workflow, Oracle Database)</li> <li>– Installation, documentation, operation</li> <li>– Development and support of the environments (development, test, production)</li> <li>– Close collaboration with development and operations, coordination</li> <li>– Transfer from project to regular operation</li> </ul>

<b>Duration</b>	<b>11/2008 - 12/2008 (2 months)</b> (34)
<b>Role</b>	<b>Architect, developer</b>
Environment	Unix, TSM, Perl, Korn-Shell
<b>Project</b>	<b>Tivoli Storage Manager-Backup</b>
Customer	Bank
Location	HomeOffice (Frankfurt)
Tasks	<ul style="list-style-type: none"> <li>– Development of an end-of-day framework for TSM-Backup in Perl</li> <li>– System analysis</li> <li>– Development of a concept (Architectur, Design)</li> <li>– Programming (Scheduling, load balancing, prioritisation)</li> <li>– Documentation in LaTeX</li> </ul>

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<b>Duration</b>	<b>05/2008 - 09/2008 (5 months)</b> (33)
<b>Role</b>	<b>Application manager, architect, developer</b>
Environment	Linux, MySQL, J2EE, JBoss, Java, Maven, Hudson, Eclipse, Perl, Korn Shell
<b>Project</b>	<b>Controlling and monitoring of the media factory (Advertising platform on the Internet)</b>
Customer	Internet service provider
Location	Karlsruhe
Tasks	<ul style="list-style-type: none"><li>– Application management (Interface between technology and non-technology)</li><li>– Incident management</li><li>– Close cooperation with development and rollout</li><li>– System architecture</li><li>– Development of a monitoring solution (Perl, ssh)</li><li>– Conception and realisation</li></ul>

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<b>Duration</b>	<b>01/2006 - 05/2008 (2 years 5 months)</b> (32)
<b>Role</b>	<b>Configuration manager, release manager, rollout manager, architect</b>
Environment	Unix (HP-UX, Solaris), Oracle (8i, 9i, 10g, RAC, rman, ER-D), Perl, SQL, Kenan Arbor, Peoplesoft CRM 8.8, Tomcat, BEA Weblogic, TOAD, ITIL, RUP
<b>Project</b>	<b>Development of the core systems CRM, Billing, EAI</b>
Customer	Telecommunications companies (mobile network)
Location	Muenchen
Tasks	<ul style="list-style-type: none"> <li>– Configuration management, release management, rollout</li> <li>– System architecture</li> <li>– Sub-project management of database restore for the provision of test data during the migration of a complex database landscape with large data volumes</li> <li>– Design and set-up of the test environments</li> <li>– Development of the script-controlled installation for the test environments</li> <li>– Connection, installation, configuration of satellite systems (e.g. GIS, CACS, FRAUD, SARV, CRS, SPAIN, . . .), both WEB-based services and purely server-based services with proprietary front end</li> <li>– Operational management of the test environments as productive systems for the testers</li> <li>– Environment support (Unix and database administration) in the development of a complex application (CRM, billing, EAI, . . .) Troubleshooting and support with performance analyses for application and database (Oracle, PeopleSoft CRM, Arbor, BEA Weblogic)</li> <li>– Organisation, presentation</li> </ul>

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<b>Duration</b>	<b>08/2005 - 12/2005 (5 months)</b> (31)
<b>Role</b>	<b>Project manager, team lead, rollout manager, architect, developer</b>
Environment	Perl, SQL, Linux (Suse 9), mySQL 4, Oracle 9i, Bugzilla Kenan Arbor, Peoplesoft CRM 8.4, TOAD, ITIL
<b>Project</b>	<b>Start-up of a new mobile phone provider (contract customers)</b>
Customer	Telecommunications companies (mobile network)
Location	Muenchen
Tasks	<ul style="list-style-type: none"> <li>– Sub-project management of reporting (management, set-up, maintenance)</li> <li>– General system support for the launch of a mobile network provider</li> <li>– Load test and performance analysis (development and implementation)</li> <li>– Development, customisation and maintenance of a defect tracking tool</li> <li>– (Bugzilla, MySQL)</li> <li>– Rollout management, organisation, presentation, moderation</li> </ul>

<b>Duration</b>	<b>10/2004 - 07/2005 (10 months)</b> (30)
<b>Role</b>	<b>Projekt manager, consultant, architect, developer</b>
Environment	Unix (HP-UX, Solaris), Oracle (8i, 9i, RAC, rman, ER-D), eVoke Axio, Perl, SQL, Kenan Arbor, Peoplesoft CRM 8.8, TOAD, ITIL, RUP
<b>Project</b>	<b>Development of the core systems CRM, Billing, EAI</b>
Customer	Telecommunications companies (mobile network)
Location	Muenchen
Tasks	<ul style="list-style-type: none"> <li>– Sub-project management of database restore, Test data during the migration of a complex database landscape with large data volumes</li> <li>– Conception and setup of the test environments, development of the script-controlled installation for the test environments</li> <li>– Operational management of the test environments as productive systems for the testers</li> <li>– Database administration</li> <li>– Data analysis, ER-Modell</li> <li>– Interface analysis</li> </ul>

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<b>Duration</b>	<b>07/2004 - 09/2004 (3 months)</b> (29)
<b>Role</b>	<b>Architect, developer</b>
Environment	Perl (Windows NT, Windows XP)
<b>Project</b>	<b>Migration of all PC clients from Windows NT to Windows XP</b>
Customer	Telecommunications companies (mobile network)
Location	Duesseldorf
Tasks	<ul style="list-style-type: none"> <li>– Development of a generic tool for migration of configuration data from applications during the migration from Windows NT to XP</li> <li>– Conception, realisation, production</li> </ul>

<b>Duration</b>	<b>04/2004 - 07/2004 (3 months)</b> (28)
<b>Role</b>	<b>Consultant, architect, developer, trainer</b>
Environment	Unix (AIX-Cluster), Windows (NT, 2000, XP), ITIL
<b>Project</b>	<b>Enhancement of system and application monitoring</b>
Customer	Insurance
Location	Hamburg
Tasks	<ul style="list-style-type: none"> <li>– Requirements analysis</li> <li>– Configuration and implementation of new modules for BMC Patrol in system and application monitoring</li> <li>– Conception, operational implementation and training</li> <li>– Presentation</li> <li>– Development of a database interface (Sybase and DB2) for the integration of Patrol Enterprise Manager (PEM, Sybase) and Peregrine Service Centre (PSC, DB2 Host) with Korn Shell and Perl</li> <li>– Conception, realisation and training, presentation</li> <li>– Development of an analysis tool (Perl, Sybase) to determine the alarm volume in PEM (Top 10)</li> </ul>

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<b>Duration</b>	<b>12/2001 - 03/2004 (2.3 years)</b> (27)
<b>Role</b>	<b>Release manager, rollout manager, environment manager, developer, administrator, tester</b>
Environment	Unix (Solaris, AIX), Oracle (8i, 9i), PeopleSoft Vantive, Veritas Cluster, Genesys CTI, Java, Korn-Shell, Perl, php, HTML, TOAD
<b>Project</b>	<b>Development of a new CRM system</b>
Customer	Telecommunications companies (mobile network)
Location	Duesseldorf
Tasks	<ul style="list-style-type: none"> <li>– Support of the test environments: Internally developed CRM application (Oracle, Vantive, Batch Interfaces, Veritas Cluster)</li> <li>– Release management: revision of the delivery process, realisation of deliveries from development to test and from test to production</li> <li>– System architecture / development: <ul style="list-style-type: none"> <li>– Analysing the existing test environment</li> <li>– Development of a new concept of environments</li> <li>– Development of the automated setup of environments with individual software versions and automated release documentation</li> </ul> </li> <li>– Operational management of the test environments as productive systems for the testers</li> <li>– Rollout in the test environments</li> <li>– Built on this, customisation and administration of the development environments</li> <li>– Development of a distributed training environment (additionally call centre, Genesys CTI)</li> <li>– Installation of the productive environment</li> <li>– Development of installation and test tools (shell script, Perl, php, HTML, SQL)</li> <li>– Rollout management</li> <li>– Software test and test case development</li> </ul>

<b>Duration</b>	<b>11/2001 (part time)</b> (26)
<b>Role</b>	<b>Trainer, consultant</b>
Environment	Solaris, SQL Backtrack, Oracle
<b>Project</b>	<b>Database backup</b>
Customer	Electrotechnical industry
Location	Stuttgart
Tasks	<ul style="list-style-type: none"> <li>– Consultancy, training (database backup with SQL Backtrack)</li> </ul>

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<b>Duration</b>	<b>10 - 11/2001 (part time)</b>	(25)
<b>Role</b>	<b>Consultant, trainer</b>	
Environment	Windows NT, SQL Backtrack, Oracle	
<b>Project</b>	<b>Database backup</b>	
Customer	Bank	
Location	Frankfurt	
Tasks	<ul style="list-style-type: none"> <li>– Installation, migration when changing versions of SQL Backtrack</li> <li>– with business-supporting advice and training</li> </ul>	

<b>Duration</b>	<b>10/2001 (part time)</b>	(24)
<b>Role</b>	<b>Consultant</b>	
Environment	Solaris, BMC Patrol	
<b>Project</b>	<b>Enhancement of system and application monitoring</b>	
Customer	Stock exchange	
Location	Frankfurt	
Tasks	<ul style="list-style-type: none"> <li>– Error analysis and troubleshooting of system and application monitoring</li> <li>– Further development and customisation</li> </ul>	

<b>Duration</b>	<b>08/2001 (part time)</b>	(23)
<b>Role</b>	<b>Consultant</b>	
Environment	Solaris, BMC Patrol	
<b>Project</b>	<b>Enhancement of system and application monitoring</b>	
Customer	Stock exchange	
Location	Frankfurt	
Tasks	<ul style="list-style-type: none"> <li>– Customisation of system and application monitoring</li> </ul>	

<b>Duration</b>	<b>07/2001 (part time)</b>	(22)
<b>Role</b>	<b>Consultant, trainer</b>	
Environment	Solaris, HP-UX, Windows NT, BMC Patrol, Oracle, DB2	
<b>Project</b>	<b>Enhancement of system and application monitoring</b>	
Customer	Application service provider	
Location	Neckarsulm	
Tasks	<ul style="list-style-type: none"> <li>– Error analysis and troubleshooting of system and application monitoring</li> <li>– Further development and configuration</li> <li>– Consultancy and training to support operations</li> </ul>	

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<b>Duration</b>	<b>04 - 09/2001 (6 months part time)</b>	(21)
<b>Role</b>	<b>Consultant</b>	
Environment	Windows 2000, BMC Patrol, Proxima Centauri AlarmManage	
<b>Project</b>	<b>Setting up system and application monitoring</b>	
Customer	Application service provider	
Location	Bad Homburg	
Tasks	– Design and implementation of system and application monitoring of an internet and application service provider	

<b>Duration</b>	<b>04/2001 (part time)</b>	(20)
<b>Role</b>	<b>Architect, developer</b>	
Environment	HPUX, Oracle, SQL Backtrack, Korn-Shell	
<b>Project</b>	<b>Database backup</b>	
Customer	Consultancy	
Location	Mainz, HomeOffice	
Tasks	– Conception and script-based development of a generic training environment for SQL Backtrack (database backup) for Oracle on HPUX	

<b>Duration</b>	<b>02/2001 (part time)</b>	(19)
<b>Role</b>	<b>Consultant</b>	
Environment	Solaris, Linux, FreeBSD, Windows NT, BMC Patrol, Proxima AlarmManage	
<b>Project</b>	<b>Setting up system and application monitoring</b>	
Customer	Internet service provider / Application service provider	
Location	Muenchen	
Tasks	– Customisation of system and application monitoring	

<b>Duration</b>	<b>01 - 05/2001 (5 months part time)</b>	(18)
<b>Role</b>	<b>Consultant, trainer</b>	
Environment	Windows NT, SQL Backtrack, Oracle	
<b>Project</b>	<b>Datenbank Backup</b>	
Customer	Bank	
Location	Frankfurt	
Tasks	<ul style="list-style-type: none"> <li>– Error analysis and troubleshooting of the existing SQL backtrack installation</li> <li>– Installation of additional systems</li> <li>– Migration of existing installations</li> <li>– Consultancy to support operations, employee training lasting several days</li> </ul>	

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<b>Duration</b>	<b>09/2000 - 03/2001 (6 months)</b> (17)
<b>Role</b>	<b>Project manager, consultant, trainer</b>
Environment	Windows NT, Solaris, AIX, BMC Patrol, Proxima Centauri AlarmManage
<b>Project</b>	<b>Setting up system and application monitoring</b>
Customer	Bank
Location	Frankfurt
Tasks	<ul style="list-style-type: none"> <li>– Sub-project management, organisation, moderation</li> <li>– Conception and implementation of system and application monitoring in a distributed heterogeneous IT landscape with Patrol</li> <li>– Alarming with Centauri</li> <li>– Operational introduction with accompanying training</li> </ul>

<b>Duration</b>	<b>02/1999 - 08/2000 (1.5 years)</b> (16)
<b>Role</b>	<b>Administrator, developer, trainer</b>
Environment	AIX, Solaris, HP-UX, Oracle, SQL Backtrack, Korn-Shell
<b>Project</b>	<b>Database backup, database administration</b>
Customer	chemical industrie
Location	Ludwigshafen
Tasks	<ul style="list-style-type: none"> <li>– Conception and realisation of database backup (Oracle 7 and 8) with SQL Backtrack in cooperation with Legato and ADSM (Tivoli Storage Manager, TSM)</li> <li>– Development of operational scripts (Korn Shell on AIX, Solaris and HP-UX)</li> <li>– Analysis, conception and development of the platform-independent scripts for the special backups for the year change from 1999 to 2000</li> <li>– User support and training</li> <li>– Database administration</li> <li>– Development of a quality assurance environment (QA environment) for Oracle and SQL Backtrack</li> </ul>

<b>Duration</b>	<b>12/1998 - 01/1999 (part time)</b> (15)
<b>Role</b>	<b>Administrator</b>
Environment	Windows NT, AIX, Telefonie
<b>Project</b>	<b>Umzug der IT</b>
Customer	Consultancy
Location	Mainz
Tasks	<ul style="list-style-type: none"> <li>– Set-up of the IT landscape (server, clients, network, telephony) after the customer's relocation with completely new equipment</li> </ul>

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<b>Duration</b>	<b>11 - 12/1998 (Teilzeit)</b> (14)
<b>Role</b>	<b>Consultant</b>
Environment	Windows NT, BMC Patrol
<b>Project</b>	<b>Setting up system and application monitoring</b>
Customer	Bank
Location	Frankfurt
Tasks	– Installation and customisation of system and application monitoring

<b>Duration</b>	<b>10/1998 - 01/1999 (4 months part time)</b> (13)
<b>Role</b>	<b>Consultant</b>
Environment	UNIX, VMS, Windows NT, BMC Patrol
<b>Project</b>	<b>Setting up system and application monitoring</b>
Customer	Pharmaceutical industry
Location	Mannheim
Tasks	– Documentation, implementation and rollout of system and application monitoring with BMC Patrol

<b>Duration</b>	<b>06 - 09/1998 (3 months)</b> (12)
<b>Role</b>	<b>Developer</b>
Environment	Solaris, Oracle, Windows NT, MS Access 7, C, C++, pcvs
<b>Project</b>	<b>Development / Setting up a call centre</b>
Customer	Bank
Location	Karlsruhe
Tasks	– Application development: Programming of middleware for a call centre with C/C++, connection to an Oracle database

<b>Duration</b>	<b>03 - 06/1998 (3 months)</b> (11)
<b>Role</b>	<b>Developer</b>
Environment	Sinix, Windows NT 3.5-4.0, Oracle 7.3.3, C, C++, ksh, tcl
<b>Project</b>	<b>Development of a freight post system</b>
Customer	Transport company
Location	Trier
Tasks	– Application development: Programming of a freight post system with C/C++ (connection to Oracle), Korn Shell and Tcl

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<b>Duration</b>	<b>04 - 12/1997 (9 months part time)</b>	(10)
<b>Role</b>	<b>Tester, developer</b>	
Environment	Windows NT, Unix (verschiedene), MS Access	
<b>Project</b>	<b>Application laboratory in the development of large telephone systems</b>	
Customer	Electrotechnical industry	
Location	Frankfurt	
Tasks	<ul style="list-style-type: none"> <li>– Testing applications and ISDN cards</li> <li>– Development of a CTI demonstration application with MS Access with communication to the telephone system</li> </ul>	

<b>Duration</b>	<b>02 - 10/1997 (9 months part time)</b>	(9)
<b>Role</b>	<b>Administrator, trainer</b>	
Environment	Windows 3.11/95/NT 4, Novell 4	
<b>Project</b>	<b>Technical operational management</b>	
Customer	Medical consulting company	
Location	Bad Homburg	
Tasks	<ul style="list-style-type: none"> <li>– System administration</li> <li>– User support and training (MS Office, e-mail, general IT)</li> </ul>	

<b>Duration</b>	<b>09 - 11/1996 (3 months)</b>	(8)
<b>Role</b>	<b>Documentation</b>	
Environment	Windows NT 4, MacOS, MS Office	
<b>Project</b>	<b>Technical operational management</b>	
Customer	Bank	
Location	HomeOffice (Frankfurt)	
Tasks	– Network and system documentation with MS Office	

<b>Duration</b>	<b>06 - 08/1996 (3 months part time)</b>	(7)
<b>Role</b>	<b>Developer</b>	
Environment	Windows, dBase IV	
<b>Project</b>	<b>Management reporting</b>	
Customer	Industry	
Location	HomeOffice (Mannheim)	
Tasks	– Enhancement of a dBase application for management reporting	

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<b>Duration</b>	<b>06 - 12/1996 (6 months part time)</b> (6)
<b>Role</b>	<b>Documentation</b>
Environment	LaTeX
<b>Project</b>	<b>Book translation</b>
Customer	Book publisher
Location	HomeOffice (Bonn)
Tasks	– Text typesetting and conversion of graphics with LaTeX

<b>Duration</b>	<b>05/1994 - 08/1996 (2.3 years part time)</b> (5)
<b>Role</b>	<b>Architect, developer, trainer, administrator, sales</b>
Environment	MS Access 2, OS/2 2.1, Windows 3.11, Novell 3.11/3.12, Pascal
<b>Project</b>	<b>Application development, including tank system software</b>
Customer	Medium-sized company in the electrical engineering sector
Location	Karlsruhe, HomeOffice
Tasks	– Software development with MS Access and Pascal – User support and training – On-site installation and customisation (integration into existing system landscapes, networks, serial, ...) – Acquisition

<b>Duration</b>	<b>1994 - 1996 (2.5 years part time)</b> (4)
<b>Role</b>	<b>Documentation</b>
Environment	LaTeX
<b>Project</b>	<b>Documentation</b>
Customer	Small business hardware and software development
Location	HomeOffice (Karlsruhe)
Tasks	– Documentation of software and hardware projects

<b>Duration</b>	<b>1991 - 1996 (5 years part time)</b> (3)
<b>Role</b>	<b>Architect, developer</b>
Environment	Atari ST, C, C++, Basic, ZyXEL
<b>Project</b>	<b>Documentation</b>
Customer	Small business software development
Location	HomeOffice (Karlsruhe)
Tasks	– Application development of answering systems

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<b>Duration</b>	<b>03/1988 - 08/1991 (3.5 years part time)</b> (2)
<b>Role</b>	<b>Developer, administrator</b>
Environment	VMS 4.5 and 4.7, Ultrix, C, C++
<b>Project</b>	<b>Operation</b>
Customer	Institute affiliated with the university
Location	Karlsruhe
Tasks	<ul style="list-style-type: none"> <li>– System administration, backup</li> <li>– Application development (process visualisation) in C/C++</li> </ul>

<b>Duration</b>	<b>07/1987 - 11/1988 (16 months part time)</b> (1)
<b>Role</b>	<b>Developer</b>
Environment	VMS 4.5 and 4.6, DCL, C
<b>Project</b>	<b>Operation, administration</b>
Customer	Electrotechnical industry
Location	Mannheim
Tasks	<ul style="list-style-type: none"> <li>– Support for CAD users</li> <li>– Application development in DCL and C</li> </ul>