

SYSTEM ARCHITECT

PROJECT MANAGEMENT

PROJECT LEAD / TEAM LEAD

CONSULTANT SYSTEM MANAGEMENT

OPERATING SYSTEMS (UNIX/LINUX, ...)

DATABASES (ORACLE, SQL, ...)

DEVOP / OAM

AUTOMATION / SCRIPTING

Name	Matthias Stuermer
Nationality	German
Year	1962
Residence	Hoechberg, Germany
Phone	+49 931 9911 9963
Mobile phone	+49 176 4311 2233
E-Mail	matthias@stuermer.net
Website	https://stuermer.net

available	January 2027
Day rate	depending on location and duration of the project and the requested skills



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

In general	3
Overview	4
Experience	4
Industries	4
Environment	5
Languages	5
Details	6
Standards	6
Operating systems	6
Databases	6
Tools / Products	7
Data communication	7
Hardware	7
Projects	9

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

Duration	01/2026 - now (53)
Role	Team leader, Technical consultant, application manager, environment manager
Environment	Linux, Oracle, bash, python, ansible, JBoss, Websphere, Tomcat, Apache, CheckMk, ServiceNow
Project	Team Leader for Technical Application Operations for a Specialist Application
Customer	Federal authority
Location	HomeOffice
Tasks	<ul style="list-style-type: none"> – Planning, implementation and monitoring of quality assurance and control measures for operational activities – Design and implementation of a dashboard for the development and operation of distributed applications – Configuration and administration of specialist applications – Conducting error analyses, documentation and, if necessary, implementation of measures – Consulting on identifying problems and resolving them sustainably – Support for the tuning measures – Independent processing of incidents and changes from the ticket system – Implementation of preventive measures – Consulting on the use of new technologies – Organisational and technical coordination of measures with affected sub-teams, the technical client and, if necessary, software suppliers – Deployment of applications, including maintenance and servicing work – Creation of scripts (bash, Oracle SQL, ansible, python) for the automation and further development of deployments for automated rollouts, as well as the maintenance of specialist application environments

Duration	08/2024 - 12/2025 (1 year, 5 months) (52)
Role	Technical consultant, application manager, environment manager
Environment	Linux, Oracle, bash, Apache, Tomcat, Websphere, Remedy
Project	Support in technical application operation
Customer	Federal authority
Location	HomeOffice
Tasks	<ul style="list-style-type: none"> – Deployment of applications, including maintenance and servicing work – Processing user and departmental enquiries (Incidents, Changes) – Architectural consulting and development (scripting) of workarounds – Data migration – Analysis of individual tickets and identification of other affected data records – Derivation of troubleshooting measures – Monitoring of production applications – Identification and anticipation of problems – Coordination of measures with affected sub-teams and technical client – Implementation of measures, review of success – Development and test of Oracle scripts

Duration	04/2024 - now (part time) (51)
Role	Technical consultant, architect, developer
Environment	Linux, MacOS, OpenAI, bash, ssh, ansible, python, Markdown
Project	Evaluation of integration of AI in existing processes
Customer	Small sized company
Location	HomeOffice
Tasks	<ul style="list-style-type: none"> – Development of AI-based workflows – Design, development and provision of customised automation solutions in bash, ansible and python with the aid of local LLMs – Integration of various sub-systems under a common interface

Duration	10/2023 - 04/2024 (7 months) (50)
Role	Technical consultant
Environment	Linux, AWS, wsl, bash, ssh, Python, Markdown, Graylog, Instana
Project	Digitalisation transport associations
Customer	Logistics
Location	HomeOffice, Frankfurt
Tasks	<ul style="list-style-type: none"> – Loganalysis (file based) and with Graylog and Instana – Rollout of data in test and production environment

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

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

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

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

Duration	12/2015 - 03/2018 (2 years 4 months) (45)
Role	Architect, developer, environment manager
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
Project	Support of system management
Customer	Bank
Location	Nuernberg, Frankfurt
Tasks	<ul style="list-style-type: none"> – Environment Support of a large environment – 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) – Customisation of the infrastructure database (APEX, PL/SQL) – Installation, Rollout, Software distribution – Revision and expansion of procedural instructions

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

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

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

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

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

Duration	02/2012 - 12/2013 (1 Jahr 11 months) (39)
Role	Architect, developer, environment manager
Environment	Unix (Red Hat Linux, Solaris), Apache, JEE/J2EE, JBoss, Eclipse, cvs, OpenSource, bash, ssh, awk, Perl, UC4, XML, Confluence, CygWin, ITIL
Project	Support of system management
Customer	Bank
Location	Nuernberg, Frankfurt
Tasks	<ul style="list-style-type: none"> – Environment support of a large environment – 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) – Incident handling – Installation, rollout, software deployment – Participation in the concept development for a new deployment solution

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

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

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

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

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

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

Duration	01/2006 - 05/2008 (2 years 5 months) (32)
Role	Configuration manager, release manager, rollout manager, architect
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
Project	Development of the core systems CRM, Billing, EAI
Customer	Telecommunications companies (mobile network)
Location	Muenchen
Tasks	<ul style="list-style-type: none"> – Configuration management, release management, rollout – System architecture – Sub-project management of database restore for the provision of test data during the migration of a complex database landscape with large data volumes – Design and set-up of the test environments – Development of the script-controlled installation for the test environments – 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 – Operational management of the test environments as productive systems for the testers – 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) – Organisation, presentation

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

Duration	10/2004 - 07/2005 (10 months) (30)
Role	Projekt manager, consultant, architect, developer
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
Project	Development of the core systems CRM, Billing, EAI
Customer	Telecommunications companies (mobile network)
Location	Muenchen
Tasks	<ul style="list-style-type: none"> – Sub-project management of database restore, Test data during the migration of a complex database landscape with large data volumes – Conception and setup of the test environments, development of the script-controlled installation for the test environments – Operational management of the test environments as productive systems for the testers – Database administration – Data analysis, ER-Modell – Interface analysis

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

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

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

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

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

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

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

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

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

Duration	04/2001 (part time)	(20)
Role	Architect, developer	
Environment	HPUX, Oracle, SQL Backtrack, Korn-Shell	
Project	Database backup	
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	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Duration	05/1994 - 08/1996 (2.3 years part time) (5)
Role	Architect, developer, trainer, administrator, sales
Environment	MS Access 2, OS/2 2.1, Windows 3.11, Novell 3.11/3.12, Pascal
Project	Application development, including tank system software
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

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

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

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

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