

Resume for Martin Knoblauch

Personal Data

Address

Martin Knoblauch
Wettersteinring 12
D-85354 Freising

Date of Birth

October 27th, 1958

Current Employment (since July 2002)

MSC.Software GmbH, D-81829 München

Position (2005 - now)

Senior Technical Consultant, SimManager Support

Position (2002 - 2005)

Senior System Architect, Consulting & IT Services

Projects/Tasks

- Support various SimManager projects at automotive suppliers
- Support the IT side of the "CAE-Bench-2" migration project at BMW
- Implementation and operation of the "CAE-Bench-II" infrastructure at AUDI
- Technical Project Management for a Simulation Data Management Migration Project at BMW (CAE-Bench), including design, implementation and operation of a heterogeneous Hardware/Software Environment including Storage (30TB on line with HSM Back end)
- Consulting/Presales for technical Customers in the fields of Cluster-/Grid-Computing and IT Infrastructure
- Design and deployment of several Compute Clusters in the automotive and aerospace field
- Technical support for the EU-Project "SimDat" on GRID based data management

Past Employment

TeraPort GmbH, D-80339 München (April 2001 – June 2002)

Position

Senior System Engineer, Consulting & IT Services

Projects/Tasks

- IT Consulting for technical Customers
- Project Management for Portal Installations

COMPAQ Computer GmbH, D-85622 Feldkirchen (Mar 2000 – Mar 2001)

Position

Presales Consultant, High Performance Technical Computing

Projects/Tasks

- Presales support of COMPAQ Customers and Sales Force
- Benchmarking of HPTC Applications
- Porting and Tuning of ISV/Customer Applications

COMPAQ Computer EMEA BV, D-85609 Dornach (Jan 1998 – Feb 2000)

Position

Project Manager, Workstation Division

Projects/Tasks

- CATIA V5 Certification support for DASSAULT Systemes, Paris
- Setup a CATIA V5 Presales Competency Center for the EMEA Region
- Knowledge transfer (Trainings, Workshops) to the EMEA subsidiaries
- General presales support for 3D Graphics related questions

Silicon Graphics GmbH, D-85630 Grasbrunn (Jan 1991 - Dec 1997)

Last Position

Manager Technical Marketing; four direct reports

Projects/Tasks

- Support DASSAULT Systemes, Paris, in porting CATIA V4 to IRIX. Direct responsibility for the low level 3d graphics interface
- Porting of Mercedes in-house application SYRKO to IRIX
- Application Consulting Support for key European ISVs (CoCreate/HP, Dalim, Nemetschek, Linotype)
- European Developer Program (Developer relations, Events)

Technical University Darmstadt (Nov 1985 - mid Jan 1991)

Position

Teaching Assistant, Dept. of Physical Chemistry

Tasks

- Development of Molecular Modeling Software
- Support of the departments network infrastructure
- Teaching the departments Computer Course
- General teaching support

Education

Technical University Darmstadt: Computer Science, Diploma
Fachhochschule Frankfurt: Chemical Engineering, Diploma

Technical Knowledge

System Architecture

Strong Knowledge of SMP/NUMA and Distributed Systems
Good Understanding of Storage Concepts (FC, SCSI, RAID)
Good Understanding of TCP/IP Networking
Basic Understanding of Network Security Concepts
Basic Understanding of Virtualization Concepts

Operating Systems

Linux - Strong Admin Knowledge
HP-UX - Good Admin Knowledge
AIX - Basic Admin Knowledge
Solaris - Basic Admin Knowledge
Windows 2K/XP/7
- User level

Databases

DB2 - Basic Admin Knowledge
MySQL - Good Admin Knowledge
Oracle - Good Admin Knowledge

High Availability Environments

Linux/HA - Strong Admin Knowledge
Veritas VCS - Basic Admin Knowledge

Parallel Environments

MPI - MPICH, LAM, Scali, HPMPI
OpenMP

Load-sharing/Queuing Environments

SGE - Strong Knowledge
LSF - Basic Admin Knowledge
PBS - Some past exposure

System Management/Monitoring/Tuning

SNMP - Basic Working Knowledge
Nagios - Good Admin Knowledge
Ganglia - Co-Developer

Hardware

Intel x86_64 based Workstations and Servers
HP Itanium Systems (Linux, HP-UX)
HP EVA Storage
IBM/Power Series
Brocade SAN Switches
Myrinet HBAs and Switches

Software Development

Good Understanding of Object Oriented Designs
Strong Unix Application and System Programming Skills
Good Knowledge of GNU Toolchain
Basic Knowledge of Eclipse and MS/Developer Studio

Programming Languages

C	- Strong Knowledge
C++	- Basic Working Knowledge, not up to date
FORTRAN	- Strong Knowledge, but not up to date
Java	- Good Working Knowledge
Perl	- Good Working Knowledge
Bash	- Good Working Knowledge
PHP	- Good Working Knowledge
CGI	- Basic Working Knowledge
SQL	- Good Working Knowledge

WEB Environment

Apache- Strong Knowledge
Tomcat- Strong Knowledge
SSL Security- Good Working Knowledge
WebShpere - Basic Working Knowledge

Certifications

Brocade BCFP

Memberships

ACM
GI (Gesellschaft für Informatik)
IEEE

Languages

Native German
Fluent written and spoken English