

CV

Skills, Expert Knowledge, Experiences



Name: Andreas Maier
 Education: Engineer
 Telecommunication Techniques
 Professional Experience: 28 Years
 Languages: German (native language)
 English (business fluent)

I. Projects / References

2005 – today: Independent Freelancer

- Managing and execution of many projects in the areas:
 IT/Application modernization and migration
 IT operations / management
 IT Infrastructures (analysis, optimization, consolidation),
 Application Performance Evaluations and Optimizations
 (messaging, resource usage, architectural, etc.)
- Development and commercialization of application
 modernization and migration tools

07/2009: SIX Group / SIX Telekurs / Zürich / Schweiz
 01/2010 Hewlett-Packard / Dübendorf / Schweiz

Performance Evaluation of MDF applications (Market Data Feed) in terms of message latency, throughput, CPU usage and the underlying application/communication architecture and propose, design and implement performance enhancements. The MDF applications were ported from IBM/AIX and Sun Solaris to Linux/SMP (SuSE SLES/SLERT)

- Hardware: HP/AMD SMP systems
- O/S: SuSE Linux (SLES / SLERT)
- Development environment: C/C++ / gcc / gdb/ddd, make, perl, grep, awk, sed, GNUPlot, oprofile, CodeAnalys
- Analyze system design and implementation of the application architecture, communication techniques, messaging, etc.
- System profiling (oprofile / CodeAnalyst)
- Document performance optimization potentials and write a proposal for further work (load balancing, threading, etc.)
- Optimize applications in terms of low latency, throughput, resources utilization, IPC mechanisms, etc.

2005 – 2009: Glaxo Wellcome GmbH & Co KG / Bad Oldesloe / Germany

- Management and execution of the strategic project: migration and modernization of a warehouse monitoring and control system
- General consulting services (IT infrastructure, development environment, technology environment, etc.)
- Design and implement the development and production environments for the application
- Migration of a Warehouse Management and Control System from HP1000/RTE-A to HP9000/HP-UX (Fortran/77, IMAGE/1000, FORMS/1000, SYSLIB, FMP)
- Modernization of the user interface (with OrgaBIT Forms)

2005 – 2009: Canadian National Railway Company (CN) / Montreal/Canada

- Project management and execution: migration and modernization of a Hump Process Control System / migrated from HP1000/RTE-A to HP9000/HP-UX (Fortran/77, Macro/1000, SYSLIB, FMP, DS/1000, BSD IPC, IBM MQ Series)
- Design and implement the development and production environments for the application
- General consulting services (IT infrastructure)

09/2008 – 06/2009 Development of OrgaBIT Forms (Client/Server based Forms Management System with GUI)

Technologies:

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|------------------------|---------------------------------|
| Operating Systems: | Linux / HP-UX / MS-Windows |
| Compiler: | GNU C/C++, HP-UX C/C++ |
| Debugger: | ddd/gdb, wdb/gdb |
| Network/Communication: | C/S TCP/IP socket communication |
| Data Base: | XML / XRC |
| Libraries / APIs: | wxWidgets, xdr, threads |
| Tools: | make/gmake, shell/sh/bash |

2005 – 2009: Druckerei Maier GmbH / Rottenburg / Germany

Design, Implement and operate the IT infrastructure (MS-Windows clients / server, Linux server, Mac clients):

- Operation and support services for the IT infrastructure

- Design and implement the GroupWare server (based on Scalix)
 - Design and implement a virtual server environment based on Linux and XEN
- 04/2008 – 05/2008 SEW Eurodrive GmbH & Co. KG / Graben-Neudorf / Germany
- Migration/portation of a couple of logistics applications from HP9000/HP-UX to RedHat Linux (C, Oracle DB, make, shell scripting)
- 2006 – 2008: E. Dold & Söhne KG / Furtwangen / Germany
- Technology Consulting (Novell/NetWare, Network Services)
- 2005 – 2008: schäfer-etiketten GmbH & Co. KG / Wolfschlügen / Germany
- Analyse, consolidate and support the IT infrastructure (MS-Windows servers and clients, Unix / Linux servers, Apple MacIntosh clients):
- support services for the IT infrastructure
 - Design and implement a virtual server environment based on Linux and XEN
- 1995 – 2005: IT Manager (CIO) (Permanent Employment):
- Design and implement an IT infrastructure based on Microsoft Windows servers, Unix / Linux servers and Novell/NetWare servers
 - Project Management: evaluate potential ERP systems, implement the selected ERP system
 - IT infrastructure management and operations
 - Data centre management, operations and support
- 1982 – 1995: Project Manager / Hewlett-Packard / Germany (permanent employment)
- Managing and execution of many projects in the areas:
- Software development
 - Benchmarking of IT infrastructures (servers / networks)
 - Computer Aided Manufacturing
 - Application migration and modernization

II. Education / Job History

1. Studies, Field of Telecommunication Techniques (1978 – 1982)

Fachhochschule für Technik Esslingen / Germany

Engineering Degree: Dipl. Ing. (FH) – 1982

2. Hewlett-Packard GmbH / Böblingen / Germany (1982 - 1995)
 - A. Project Manager – Software Development (1982 - 1986)

Managing software development projects in the area of computer aided manufacturing / manufacturing automation (CIM/CAM).

Development Platform: HP1000/RTE, Fortran/77, FORMS/1000 forms management system, IMAGE/1000 database system.
 - B. Support-/Marketing-Engineer – Sales Marketing (1986 - 1988)
 - a) Sales Support for the Hewlett-Packard server platforms HP1000/RTE and HP9000/HP-UX. Managing development projects for customer-specific products. Coordinating communication between customers and the R&D departments in the US.
 - b) Organized and attended trade shows, road shows and customer events.
 - c) Organized and participated in the rollout of the HP9000/HP-UX server family, organized customer events, gave speeches, wrote White Papers.
 - C. Project Manager – Professional Services Organization (1988-1995)
 - a) Being responsible for the introduction of HP products for manufacturing automation (CIM/CAM), Managing and running projects in that area (process monitoring and control systems).
 - b) Organizing and running benchmarks (technical, commercial) for customers to prove the performance of the HP9000/HP-UX server platform.
 - c) Managing a profit centre and being responsible for HP's Midrange Migration Business in Germany and partly Europe – application / software migrations from legacy proprietary computer platforms to HP9000/HP-UX.

Developing migration tools and services.

Recruit partners providing migration tools and services.

Managing and running migration projects.

Organized and attended trade shows (CEBIT, Systems).

Introduced HP's application migration portfolio to the HP sales organization and customers in Europe via speeches, White Papers, customer conventions and trainings for sales people.

Summary

Acquired deep knowledge and experiences in the following areas:

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|------------------------|--|
| Project Management: | Being responsible (commercially and technically) for managing and running IT related projects, running a profit centre |
| Hardware: | HP1000, HP9000, HP3000, PCs, related peripherals |
| Operating Systems: | Unix/HP-UX, HP1000/RTE, HP3000/MPE / in general: legacy, proprietary operating systems |
| Programming Languages: | C/C++, Fortran, Pascal, Basic, Cobol, Scripting (Shell, awk, sed, etc.) |
| User Interfaces: | Terminal/character oriented, X- Windows/X11, JYACC/JAM, ISA/Dialog Manager |
| Data Bases: | HP-IMAGE, ISAM, Oracle/SQL |
| Others: | Designing and Planning IT architectures, Benchmarking and optimizing IT architectures, Manufacturing Automation (CIM, CAM), Networks (LAN / WAN) |

3. IT Manager (CIO) – schäfer-etiketten GmbH & Co KG / Wolfschlugen (1995 - 2005)

In 1995, Mr. Maier accepted the challenge to work with one of his former clients as an IT manager, responsible for the continuous operation of their IT data centre (24/7) and the strategic development of IT operations. His major efforts included:

- A. Planning and managing the installation of a companywide local area Ethernet network (UTP5, switches, hubs). Installing and configuring a network management system based on HP OpenView PCs/Macs

clients and the server farm consisting of some Novell/NetWare servers, Windows servers, HP9000/HP-UX servers und Linux servers.

- B. Introducing a standard office automation environment based on Microsoft-Office and Novell GroupWise including the fax server system Tobit David/FaxWare.
- C. Planning, managing and introducing a completely integrated brand new client/server based ERP system (designed for printing shops) including the operational modules financial, costs, asset and payroll accounting including time recording and the ERP modules materials management, warehouse control, purchasing, sales, order management, production planning including electronic control station, dispatching, invoicing, production data acquisition and last but not least trading. Connecting several customers via EDI to transfer and manage orders.
- D. Installing, configuring and managing the relational database system Informix Dynamic Server which is used as data management system for the ERP system.
- E. Connecting the enterprise to the Internet, installing and configuring a Firewall based on Linux, an Apache Web-Server (Intranet/Extranet) and a remote access solution (VPN tunneling, IPSec and SSL).
- F. Installing and configuring Linux based enterprise wide file and print servers using Samba services.
- G. Responsible for the Quality Management system based on DIN EN ISO 9001:2000 being the deputy quality manager and an internal auditor.

Summary

Acquired deep knowledge and experiences in the following areas:

| | |
|--|---|
| Project Management: and IT-Organization | Being commercially responsible for the IT-infrastructure, the IT-operation, the optimization and the strategic planning for the IT environment, Project Manager for the implementation of the enterprise-wide ERP system |
| Hardware: | HP9000/HP-UX, PC Client/Server architectures (Intel x86), related peripherals |
| Operating Systems: | Unix/Linux/HP-UX, Novell/NetWare, Windows (95, 98, NT, 2000, XP / Client + Server), Mac O/S |
| Programming Languages: | C/C++, VBA (MS-Office), Scripting (Shell, awk, sed, etc.), SQL/SPL |

| | |
|------------------|--|
| User Interfaces: | Windows, Mac O/S, X11 (Linux) |
| Data Bases: | Informix Dynamic Server / SQL/SPL, MySQL, MS-Access, SQL Server |
| Applications: | ERP systems, EDI systems, MS-Office, GroupWare |
| Tools: | Crystal Reports, Linux Packet Firewall, Samba, Print Services, Apache, |
| Others: | Networks (LAN/WAN), Remote Access/VPN, QMS |

4. OrgaBIT – Organisation · Beratung · IT
Business Organization · Consulting · IT (foundation 04/2005)

After being an IT manager for 10 years, Mr. Maier decided to take the next step in his career by establishing OrgaBIT. All the skills and knowledge he has gathered in over 25 years of working in IT related jobs are now available to help customers migrate applications, and build, plan and manage complex IT infrastructures.

Mr. Maier's main focus and his expert knowledge is lying in the following areas:

- A. Leading national or international projects as a project leader or project manager in the areas:
 - a) IT infrastructures (analyzing, optimizing, consolidation)
 - b) Migrations (applications, processes)
 - c) Software design and development
 - d) General IT projects (IT architectures, IT consulting, etc.)
 - e) Interim IT-Manager

References / Experiences:

1. Being a project manager by managing a profit center in the Hewlett-Packard Professional Services Organization
2. Being a project manager during the implementation of a new ERP system as an IT manager
3. Planning and running projects as a freelancer together with the customers project managers.

B. Developing and selling application migration and modernization tools and services for legacy server und Unix platforms:

- a) HP1000/RTE, HP3000/MPE
- b) all proprietary Unix like systems (HP / HP-UX, Sun / Solaris, IBM / AIX, etc.)
- c) DEC VAX/VMS / HP OpenVMS systems
- d) Mainframe Systems (VMS, MVS, zOS, BS2000/OSD)

and managing and running world-wide migration projects.

Where available, OEMing migration tools from solution partners.

Mission / Goal:

Providing tools and services to be able to migrate applications to Unix and Linux systems as smooth and as fast as possible – and therefore as favourable as possible – typically coming along with application modernization efforts.

C. IT-Consulting, -Services and -Support

Operating Systems:

Unix / HP-UX / Linux / NetWare / Windows

Services:

- a) Server Inventory and Consolidation
- b) Optimizing Data Centers and IT infrastructures
- c) Design, Plan, Build and Run IT infrastructures based on Linux/OpenSource
- d) Network Services: DNS/DHCP, Firewall, Proxy-Server, Mail-Server, PC File-/Print-Server (Samba), LDAP/OpenLDAP, VPN (IPSec and SSL), Novell NetWare/NDS/eDirectory
- e) Data Bases (Informix, PostGRES, MySQL, SQL, MS-Access)
- f) GroupWare systems (Novell/GroupWise, Scalix, Open-XChange)
- g) Consulting/Support/Programming: Fortran, Visual Basic/VBA, C/C++, Shell-Scripting, awk, sed, make

D. Developing and commercialization of „OrgaBIT Forms“ on the basis of the Open Source GUI Toolkit wxWidgets.

III. Summary Expert Knowledge – organizational

1. Project management / project controlling in national and international IT related projects
2. General IT consulting, IT process consulting
3. Interim IT-Manager

IV. Summary Expert Knowledge - technical

1. Specialized on
 - A. IT Infrastructures based on Unix (HP-UX, AIX, Solaris, etc.) and Linux (HP-UX, AIX, Solaris, SuSE, RedHat, Debian, etc.)
 - B. Performance Evaluations and Optimizations:
 - ↳ application design and implementation, application architecture and infrastructure, system design and infrastructure
 - ↳ scalability (SMP)
 - ↳ resources utilization (CPU, RAM, Disk-Access, etc.)
 - ↳ low latency messaging und processing
 - ↳ application and system profiling
 - ↳ Adapt application to underlying system architecture (CC/NUMA, CPUs, etc.)
 - ↳ testing, bug fixing, debugging, etc.
 - C. Application migrations from legacy proprietary and Unix computer platforms/derivates to Unix/HP-UX/Linux

for all kinds of industry sectors.

2. Hardware: Intel (x86/Itanium), HP1000, HP3000, HP9000, VAX, Alpha
3. Operating Systems: Unix, GNU/Linux, HP-UX, Microsoft Windows, Mac OS, HP1000/RTE, HP3000/MPE, VMS/OpenVMS, Novell/NetWare
4. Programming Languages: C/C++, Fortran (77/90/95), Visual Basic/VBA, SQL/SPL, Java/JavaScript, Scripting (Shell, awk, sed, Perl, PHP, etc.)
5. Designing, managing and administrating complex IT infrastructures

Designing and managing virtual server environments based on Linux and XEN
6. Design, Plan, Build and Run IT Infrastructures based on Linux/OpenSource
7. Provide Consulting for Network Services: DNS-/DHCP, Firewall, Proxy-Server, Mail-Server, Windows File-/Print-Server (Samba), LDAP/OpenLDAP, WebServer (Apache), VPN-Server (OpenVPN, OpenSwan)

8. Data Bases (Informix Dynamic Server, PostGRES, MySQL, SQL/SPL, MS-Access)
9. GroupWare systems (Novell/GroupWise, Scalix, Exchange4Linux, Open Groupware, Open-Xchange)
10. MS-Office, OpenOffice
11. Develop custom applications and add-ons based on MS-Access / VBA incl. data connectors via DAO/ADO