

Curriculum Vitae

Igor Sachs



Personal Data

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Working Experience

- since 04/06 **Student Tutor at Hamburg University of Applied Sciences**
- Realization of Tutorials for Matlab/Simulink
 - Development of Matlab-Exercises
 - Revision of Exercises for the Communications Engineering Lab
(*Matlab, Simulink, Network Protocol-Analysis*)
- 08/05 - 11/05 **Networkadministration at Deutsche Hefewerke GmbH** in Hamburg
- Creation and Control of data-backup jobs
 - Error diagnostics and removal
 - Software distribution over Active-Directory, 1st-Level Support for users
 - Setup of a Network Management Application on Linux
 - Development of Concepts and cost estimates
- (*MS Windows NT 4.0/2000/XP/2003, Suse Linux, Cygwin, MS Active Directory, MS Exchange 5.5, MS SQL-Server, ArcServe*)

- 10/04 - 05/05 **Working Student at Philips Semiconductors GmbH** in Hamburg
- Programming a GPIB-Bus-Interface using HP-Vee for Control of Lab instruments
 - Development of a Visualisierungsoftware for spectral measurement data with Matlab
 - Realization of several test series to check the performance of RFID tags
 - Analysis, Presentation and Documentation of the results
- (MS Windows 2000, Windows NT 4.0, Cygwin, HP-VEE, Matlab, C/C++, GPIB, RS-232, USB)*
- 07/04 - 10/04 **Internship at IBM Deutschland Entwicklung GmbH** in Böblingen at eServer-Management
- Extension of the Client- and Servermodule of a System Management Application, to ensure a secure communication between Client and Server using the Kerberos Security Protocol.
 - Familiarization with CIM / WBEM as well as acquisition of the knowledge in the field of Kerberos Security
 - Setup of a complete Kerberos environment on Linux. Design und Implementation of an example application for Linux using the GSS-API to test the Kerberos-Setup
 - Port of the Pegasus 2.3 Kerberos Support (Server as well as Client) from z/OS to Linux
 - Port of the developed example application from Linux to Windows
 - Testing the interoperability of Kerberos between Windows and Linux
- (Windows XP, Redhat Linux, z/OS, Visual C++, GCC, VMWare, GSS-API, CIM, Lotus Notes, Telnet, Rational Rose, UML)*
- 10/01 - 08/02 **Web Developer (freelancer) at HypoVereinsbank AG** in München
- Development and maintenance of a Content Management System (CMS) within the Project Businessgate
 - Development und adaption of XML-, HTML- und JavaScript-Templates for the CMS
 - Administration of the Webserver. Support at employee training
 - Support for the users projects
- (Windows NT 4.0, Cygwin, HTML, XML, JavaScript, CMS-Reddot, DOS-Batch, Telnet, Impact)*
- 09/00 - 09/01 **Internship at BMW AG** in München
- Development of Webpages for the extranet of BMW within the Project Supply & Replenishment Dealership on basis of HTML and JavaScript
- (Windows NT 4.0, HTML, JavaScript, MS-Office, Visio, MS-Project, Access, MS-Outlook)*

- 09/99 - 12/99 **Systemadministration** at the **Deutsche Telekom AG** in Regensburg, Weiden and Traunstein
 - Migration of Clients and Servers at the Deutsche Telekom in Regensburg, Weiden and Traunstein
 (*Windows NT 4.0, Windows 95/98, Access, MS-Outlook*)
- 1996 - 2002 freelance for different companies like e.g. HypoVereinsbank, Advance Steuerberatungsgesellschaft mbH, Articon, The IT Company, Deutsche Telekom

Projects during the Studies

- CAN-Bus Design and Development of a CAN-Controller Modul using SystemC
- RISC-
Architecture Development of a 5-stage 16Bit RISC Processor using VHDL

Studies & Education

- since 09/05 **Master Course of Information Engineering** at **University of Applied Sciences Hamburg**
 Masterthesis: Gigabit serial data communication between FPGA's running uClinux
 Aimed Degree: **Master of Engineering**
- 09/02 - 07/05 **Bachelor Course of Information Engineering** at **University of Applied Sciences Hamburg**
 Bachelorreport: Kerberos Security in a Client/Server System Management Application **Grade: very good**
 Degree: **Bachelor of Engineering (Overall grade: good)**
- 01/00 - 07/00 Preparation for the external Diploma (in-service training)
 Degree: advanced technical college entrance qualification
- 09/95 - 07/99 Municipal High School in München

Technical Skills

Programing Languages

Expertise in Matlab

Project experiences in C, C++, Java, Perl, UML

Basic knowledge in Visual Basic, Pascal

Digital/Electronics

Good knowledge in SystemC, VHDL, Assembler

Operating Systems

Unix (FreeBSD), Linux(Suse, Redhat, Gentoo), uClinux, Windows

9x/NT/2000/XP

Software

Apache, Oracle 9i, Rational Rose, Eclipse, CVS

Webtechnologies

HTML, CSS, JavaScript, PHP, SQL

Tools

MS Visual C/C++, gcc, mb-gcc, cygwin, Posix Shell-Scripting

Other

different Applications (Office etc.), \LaTeX

Special Interests & further knowledge

Languages	German: Native language English: Fluent in spoken and written Swedish: Business fluent French: Basic knowledge
Engagement	Member of student representatives at University of Applied Sciences Hamburg

References

References available upon request.

Hamburg, 13. Juli 2007