

Person

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Birthday: 09/15/1968

Nationality: German
Education: Physics
EDV-Experiance since : 12/90
Qualification: C++ Software - developper

Education

7/75-7/88 Basic school, Albert Einstein Gymnasium Ravensburg (Germany)
7/88-9/89 military service
9/89-7/98 University of Tübingen : Dipl. Physik with minor field Computer Science.
Intermediate diplma in Computer Science as main study.Diploma thesis computer science

6/02-8/02 Vancouver English Center

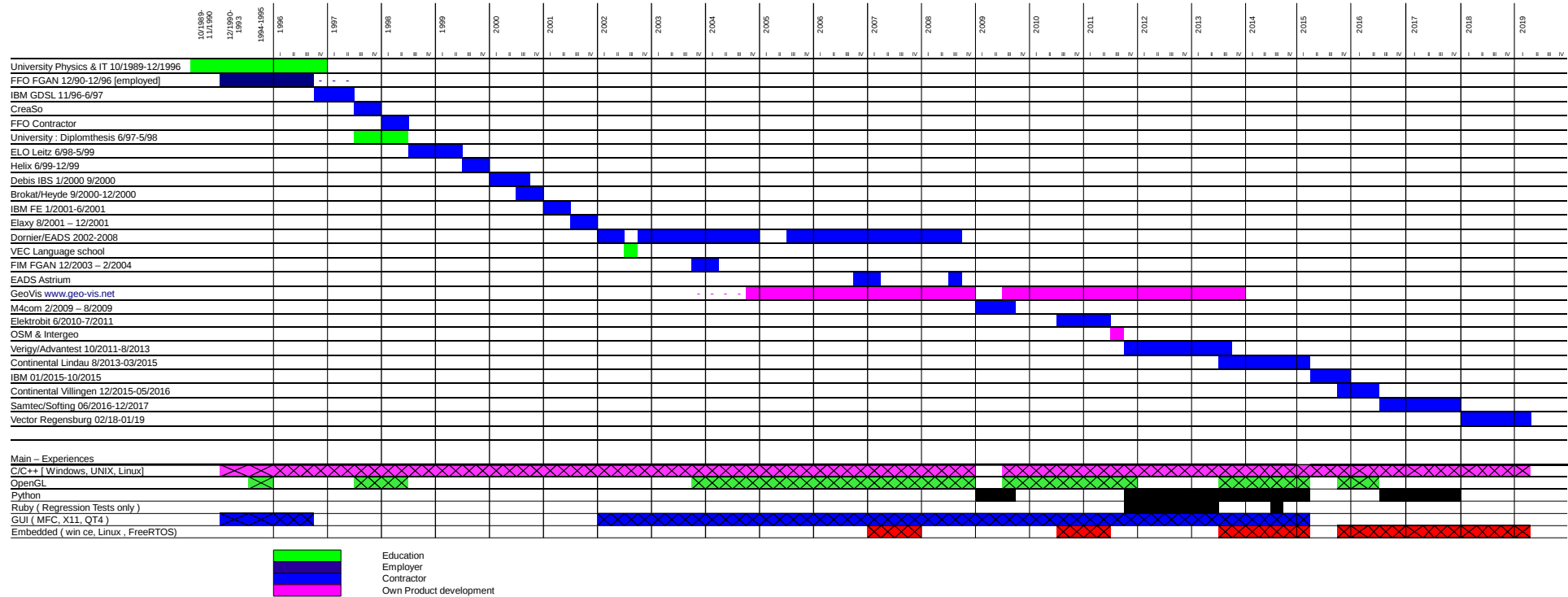
Career

12/90-6/97 employee : Institut for Optical Research (FGAN/FfO – Tübingen) : software development in imageprocessing and administration tasks for hard - and software.
11/96-presence freelancer (see projects below)

Timeplan

Timepresentation of experiences in IT

Freiberuflicher Softwareentwickler
 Dipl. Phys.
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Practical activities :

1/2918-heute: Vector Informatics Regensburg

Create a new Version of build environment with gnu-make within cygwin.

Administration of Jenkins.

Features:

- Multiple crsoss C- compiler
- Automatic dependency
- QAC, MISRA
- include AutoSar Makefiles
- Continues Integration (CI)
- Code coverage
- AutoSAR build
- Generate HTML delivery description files

Technologieen:

- Makefile, GNU-Make, gmake
- Cross compile
- AutoSar-Makefiles
- GNU-Tools: bash, bash-HERE-scripts, awk, sed, tr, cut, ...
- Jenkins

5/2016-presence Samtec/Softing Kirchentellinsfurt bei Tübingen

Development of Software for garage diagnose tool.

Tasks:

- Extend the Protokoll ISOTP 15765-2 on CAN-BUS with different addressing formats
- Introduce of doxygen source code documentation
- Portierung from FreeRTOS o embedded Linux

Technologien:

- C
- Linux, embedded Linux, cygwin, Windows
- Protokolle: CAN-BUS, ISOTP 15765-2, UDS
- make
- svn, git
- Jenkins
- doxygen
- Scrum, icescrum, MS-TFS

12/2015-05/2016 Softwaredevelopment

Continental Villingen-Schwenningen

Working for camera based mirror for trucks.

Softwaredevelopment in C/C++, Create Linux kernel and filesystem with ptxdist

Technologies:

- embedded Linux : Freescale iMX6 platform
- Ubuntu Linux
- Windows
- C/C++
- OpenGL/Shading language for lensecorrection
- ptxdist
- video for Linux - v4l
- cmake with cross compiler toolchain file, Makefile

04/2015-10/2015 Softwaredevelopment

IBM Böblingen

Working for Linux on zSystem / systemZ / s390. Enhancement for debian installer.

Linux Packages:

- s390-tools
- util-linux
- Debian-installer für Ubuntu auf s390

Technologies:

- C
 - Linux
 - zSystem
 - Mainframe, s390, s390x
 - man-pages
 - qemu
-

08/2013-03/2015 Softwaredevelopment

ADAS Continental

Softwaredevelopment for Lanedetection.

1. Task : Display Lane Detection results by rendering results back to camera image
2. Task: Scene generator which simulates car camera system for Lane Detection

C++ (Visual Studio 2005), Windows, OpenGL, MFC, GLSL, MKS, AutoSAR (especially AutoSAR Coordinate system), MTS-Continental, scons - Python, sqlite3, SQL.

11/2011-08/2013 Softwaredevelopment

Verigy (HP daughter) / Advantest (new owner)

Softwaredevelopment for Chiptesting. Being part of the Mix-Signal Team.

Linux, C++, GNU - Toolchain : gcc, gdb, make, JNI -> Java, clearcase, svn, eclipse, ruby

09/11-09/11 Softwaredevelopment & INTERGEO with openSeaMap

Own product development : Geographic visualisation

Development of geographic visualisation

C++, OpenGL, GEO, GIS, wxWidgets, QT4, Linux

02/11-07/11 Softwaredevelopment

Elektrobit Erlangen

Softwaredevelopment for MapRendering in Car-Navigation, configuration management

C++, OpenGL ES 1.1, 2.0, Windows, Visual C++ 2008

| | |
|--------------------|---|
| 06/10-12/10 | Integration/Bugfixing Elektrobit München Integration, Test, Bugfix for Car-Navigation/Infotainment C++, Windows CE, ARM Prozessor, Visual C++ 2008 embedded. |
| 09/09-04/10 | Softwaredevelopment Own product development : Geographic visualisation C++, OpenGL, GEO, GIS, wxWidgets |
| 01/09-08/09 | Softwaredevelopment M4Com Salem C++, Python, Corba |
| 11/08-12/08 | Softwaredevelopment Own product development : Geographic visualisation C++, OpenGL, GEO, GIS |

01/02-10/08

Software development

Dornier EADS/EADS

- Develop software in different projects with background in geographic projections, GIS, georeferenced imageprocessing and geographic vector data.
Platformindependent and multithreaded environment.
- Another task is to port software from HP-UX to Linux.
- Development of a platform independent library.
- JNI wrapper for a C++ library
- A short phase IDL (www.rsinc.com not CORBA IDL) for ENVI userdefined extention.
- A lot of small dialogbased helper tools with MFC.
- Coaching/helping coworkers
- Accelerating imageprocessing by paralling and distributing calculations.
- Geographic Visualisation - library with OpenGL (wgl & glX)

C++ : MSVC++, MSDN (operating systems), gcc 2.xx & 3.xx on all platforms except Itanium, aCC (HP-UX), CC (SunOS)

Operating systems : Windows, Windows 64 - Itanium, Linux, SunOS, HP - UX, Cygwin

Other technologies : ODBC, IPC, FibreChannel (FXLP & FXSL protocol), OpenGL, GNUMake, flex/lex, JNI (Java nativ interface), Corba (OMNI & VisiBroker), PVM (Pure Virtual Machine), geotiff, libtiff, XML (libxml2, libxml++)

12/02-01/02

GUI (in a spare time during EADS projects)

Development of a program to play AVI – sequences and record reaction of the visitor. Own development of AVI - Interface because of 2GB Windows problem.

MSVC++, MFC, Win2000, AVI – Fileformat, Codec, Windows DrawDib – API, Raid 0

01/02 (1 Week)

Advanced training : Lotus Notes

LotusNotes : Designer and C/C++ API.

08/01-12/01

Quotrix

Elaxy (Coburg, Germany)

Development in the Quotrix-Team.

Quotrix is an elektronik Trading System : www.quotrix.com.

- Development of main-parts of Basic – library: Socket, Threads, using of MD5 & Idea-Crypt, ...
- Some Services of Quotrix.
- Design and building up of development - environment.

Environment : SunOS (6,7,8), Win2k, MSVC++ 6.0, Sun Forte 6

01/01/-06/01

IBM / Tivoli

IBM Laboratory Böblingen (Germany)

Construction/Redesign of Development - environment for Windows and UNIX.

- Port from AIX to HP-UX, SunOS, OSF1(True64, DEC), Linux, Windows NT + 2000.
- Building releases and responsibility for the administration for Revision Control System (CVS).
- Administrator of Sparc with SunOS 6 + 7.

Environment : VC++ 6.0, SunOS 2.6, 2.7, HP-UX, OSF, Linux, RogueWave (Tools, Threads, ToolsProf.), GNU – Tools (gmake, automake/autoconf), CVS

08/00-12/00

Twister – Project

08-09 Brokat (Stuttgart) / 10-12 Heyde (Bad Nauheim/ Frankfurt, Germany)

Training : „Twister 4 Internal”.

Development in the Twister - environment.

- RDO – Development (only compatibility - classes for old Twister) Gateway – Developmen
- Client/Server IPC with Socket between Win32 and UNIX
- Threads (pthreads and Win32 – Threads
- Increment of Development - environment (makefile)
- 2. Projekt : Construction of Development - environment
- Design for Exceptionhandling
- XML – Parser, http – protokol

Environment : VC++, C++, STL, Twister 2.3.5 + 4, NT, SunOS (WS 4, 5)

07/00

CreaSo / BASF

Interface for IDL (RSI) to ORACLE – sqlplus

- Interface for IDL
- Installation of Oracle on Linux

Environment : Linux, IDL, Oracle

02/00-07/00

BroadVision

Debis IBS/T-System

Development in 2 Internetshops with a Team using BroadVision. Technical leadership of a project.

- BroadVision - JavaScript (Syntax like ASP, PHP or JSP)
- Meta-HTML – Compiler (www.metahtml.com)
- Extend / optimise of Developmentenvironment: make, bash, awk, sed
- Administration : SunOS, CVS, Oracle, BroadVision
- Some tools in C++ : LEX - parser for URL's, ...

Environment : SunOS, NT, BroadVision, JavaScript, Meta-HTML, Oracle

11/99- 01/00

VolCut / CreaSo

Daimler Chrysler Aerospace AG Bremen (Germany)

Editor for Visualisation of 3D Volum - data

Environment : NT, IDL (RSI)

6/99- 12/99

Logistic for LGI (HP + Willi Betz)

Helix Software

Software - development for logistic affairs

- Mailslots of PSI (like MQSeries
- DB : INGRES (embedded SQL/ Ingres – Forms)
- Multiprocess
- Exception – Handling
- Printerdriver – Treiber : PCL, HPGL, Label – Printer (Cab)
- Codegeneration ksh, awk, C++ :
OO – DB – Interfaces/Classes and
Record – classes for Mailboxtransaction
- Programming of editor NEDIT

Environment : C++/OOP, HP–UX, UNIX – Tools : ksh, awk, sed

2/99-ca. 6/99

Tivoli – Environment

Consulting (Stuttgart, Germany)

Software - development

10Plus Module for Tivoli. Client/Server Program for monitoring of processes, logfiles, DB - Access.

GUI for configuration of the programm with MFC

- Sockets (Aix, Win32)
- Multithread
- programming close to system in Win NT

Environment : MS Visual C++ 6.0, MFC, NT, (AIX, C)

7/98 – 5/99

ELO - Professional

Louis Leitz Digital Office (Stuttgart, Germany)

Softwaredevelopment in Documentmanagement

Partial tasks for the Product *EloProfessional*.

- TIFF (Multipage - Fileformat) - Conversionprogramm
- TextReader for TIFF – Dokuments for Vulltextsearch Fulcrum with Recognita 4.0c
- Design and implement of WorkFlow with ODBC on MS SQL - Server 6.5 u. 7 beta.
- C/S : Mailslot and Named Pipe
- Win32 Services
- Some small tasks mit VCL.

Environment : C++/OOP, CBuilder, MSVisual, VCL, PVCS, SQL Server

6/97 - 6/98

Diploma thesis (Physik) : Discontinuity Meshing in Radiosity

Chair for graphical data Processing of Computer Science

Development / Research in Virtual Reality, OpenGL

OO-Development of a new algorithmus for triangulate of meshes.

Environment : VC++/ (MFC a little), NT

11/97 - 6/98

Image - processing

Researchinstitut for Optik, Tübingen (Germany)

Programming

Continuing development of Immageprocessing and Software for Quickframe (see below).

Environment: C++, IDL, DEC-Unix, NT

08/97 + 09/97

Research

Dornier, Friedrichshafen (Germany)

Analyses of a Program, Redesign and redevelopment.

Development for dataevaluation with GUI.

- Generation of SQL scrips for Oracle SQLPLUS.
- development of navigator for graphical presentation of measurement.

Environment : IDL, SQLPLUS, Oracle, HP-UNIX, NT / '95

11/96 - 05/97

FlowMark 3.1 -> renamed to MQSeriesWorkflow

IBM GSDL (GermanSoftwareDevelopmentLaboratory)

Design and Programming the ProgramExecutionAgent.

Details:

- Threads
- STL
- IPC : Named PIPE's, Shared Memory
- Runtime DLL on all Plattformen
- MQSeries.
- Codierung with strict Coding-Guidelines and Codereviews
- participating writing of kernel-classes

Environment: C++/OOP (MS-Visual, AIX), OS2, AIX, NT; 95,

CMVC (RCS), PVCS (make)

12/90 - 6/97

Optical Research (employed)

FfO (FGAN ev.) 50% Job during study

Softwareentwicklung in imageprocessing and physical research and administration tasks for hard - and software.

Plattform : DEC - UNIX (OFS/1), Windows 3.1, NT, MSQuick C,

VisualC++, MS Fortran, DEC - Fortran

Knowledge

Operating systems :

| | |
|---------------|--|
| VMS | |
| UNIX | (OSF/1, AIX, HP-UX, SGI, SunOS, Linux) |
| DOS/Windows | (3.1, 3.11, '95, NT, 2000, XP, 7) |
| OS/2 Warp 3.0 | |

Programming languages :

| | |
|------------|--|
| Fortran | Microsoft, DEC/VMS |
| C/C++ | DEC-Unix, DEC-VMS, Borland, SGI, OS/2, MSVC++, C++Builder with VCL, HP-UX, SunOS WS 4, 5, 6, C++ .NET (managed extensions) |
| IDL | Interactive data language for image processing www.exelisvis.com |
| UNIX/shell | bash, ksh, awk (bison), lex (flex), yacc, sed, Python, Ruby |

Librarys:

STL
MFC
wxWidgets
QT4
ODBC, sqlite3
OpenGL, GLSL
XML libxml2, libxml++
Fileformats : libtiff, libpng, ...

Communication/Network :

| | |
|-----------------|-----------------------------|
| PATHWORKS | DEC - LAN |
| UCX/VMS | DEC-NFS |
| NFS | |
| LAN | (Windows NT, OS/2) |
| IBM MQSeries | (less) |
| PSI – Mailboxes | (PSI) |
| Sockets | (TCP/IP, UDP, UNIX) |
| FibreChannel | (FXLP & FXSL - protocols) |

Database :

RDB/VMS
Oracle
MS SQL-Server
MySQL
sqlite3

Languages :

German (nativ speaker)
Englisch