

Roland Reichwein



- born 1978 in Berlin, Germany
- Computer Scientist (German Dipl.-Inf., Humboldt University Berlin)
- Software Developer (Embedded, Visualization, Tools)
- Operating System Specialist (Linux Kernel, Unix)

CONTACT

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EDUCATION

Computer Science
MSc (German Dipl.-Inf.)
Berlin, Germany

Humboldt University
Institute for Informatics
October 1999 – October 2004

I studied various topics in Computer Science: Software Engineering, Signal Processing, Databases, Telecommunication Systems, Cryptography, and more. To supplement this, I also studied some Physics at the Physics department of Humboldt University. For my thesis, I worked on efficient algorithms for Automatic Music Transcription. It includes modern Signal Processing and XML technology.

WORK

EXPERIENCE (PAID)

Embedded Software Developer
Munich, Germany

BMW AG
April 2023 – present

BMW AG is developing high quality electric vehicles. I'm developing embedded software for its ECUs (electronic control units).
Tools/Platforms: Embedded C++, AUTOSAR, GCC, Clang, Google Test, Bazel, Git

Team Lead Software Development
Martinsried, Germany

Tebis AG
October 2018 – March 2023

Tebis AG is a leading provider of software solutions and processes for CAD/CAM and MES software. I was leading the platform team, developing libraries and maintaining the development environment for all other development teams.
Tools/Platforms: MSVC++, Clang, Boost, Qt, Google Test

Software Engineer
Ottobrunn, Germany

Astyx GmbH
July 2015 – September 2018

Astyx Communication & Sensors GmbH develops radar and other high frequency sensors. I was involved in development of high resolution radar sensors newly developed for autonomous driving applications. My main tasks were design and implementation of new system concepts, optimization of software and

measurement and visualization tools.

Tools/Platforms: Visual C++, C, Qt, Google Test, Java/Android, ADTF, OpenGL

Software Engineer

Holzkirchen, Germany

Work Microwave GmbH develops a series of high-frequency devices for satellite communication, navigation and radar for which I was developing system software, host computer tools and computer networks. Emphasis on Satellite Modems with Embedded Linux.

Tools/Platforms: Cross-GCC, AVR, AVR32, PowerPC, Linux, Web-server/FastCGI

WORK Microwave GmbH

July 2009 – June 2015

Software Engineer

Unterschleißheim, Germany

Philosys is a consulting company involved in UNIX clustering, telecommunication, graphics software for BMW car simulation and Embedded Linux for mobile devices, where I was involved in different respective projects. Emphasis on Embedded Linux.

Philosys Software GmbH

February 2005 – June 2009

Programmer,

System Administrator

Berlin, Germany

At Epigenomics AG, a German/US biotechnology company, I took care of a heterogeneous network with Linux, Solaris and Windows workstations and servers and developed an integrated LDAP infrastructure in Berlin/Germany and Seattle, WA.

Epigenomics AG

I-Systems

March 2001 – March 2002

FREE SOFTWARE
PROJECTS
(VOLUNTARY,
SPARE TIME)

Developer

<http://www.debian.org/>

At Debian (the largest GNU/Linux distribution) I was maintaining several source packages and the powerpcspe platform (Freescale e500v2 core).

Debian Project

**September 2003 – September
2016**

Developer

<http://www.reichwein.it/webserver/>

I'm developing the standalone Reichwein.IT webserver with C++ and Boost, featuring TLS, IPv6, plugin interface, CGI, FCGI, Webbox, HTTP AUTH and virtual servers.

Reichwein.IT Webserver

April 2020 – present

Developer

<http://www.reichwein.it/unicode/>

I'm developing the standalone Reichwein.IT Unicode Library for locale independent encoding conversion and validation. It supports UTF-8, UTF-16, UTF-32, ISO-8859-1, ISO-8859-15.

Reichwein.IT Unicode Library

January 2021 – present

Translator

<http://translationproject.org/>

Translation Project

June 2003 – July 2015

I was a member of the German team in the Translation Project and translated gcc from English to German.

HOBBIES

I'm playing the electric bass. Furthermore, I'm interested in microcontroller and CAN bus automotive projects.