

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

Hauptstr. 101a
82008 Unterhaching
Germany

E-mail: rr@antcom.de
Web: <http://www.antcom.de/rr/bio/>
Phone: +49-151-21530205, +49-89-44237262

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 studied 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

At BMW AG, I'm involved in the development of embedded software for the central ECUs in vehicles of the Mini, BMW and Rolls Royce brands. I was involved in the development of BMW's 2025 and 2029 boardnet architecture generations. My tasks include Software Architecture, Platform Development, Hardware Estimation and Recruiting. Further, I'm responsible for the definition of development processes based on ASPICE. I'm working at the interface between several international development teams which are responsible for the common software platform and domains of customer functions. Important involved software components are FreeRTOS, OBD, Personalization, Boardnet Architecture on Ethernet and CAN buses, and Middleware.

Tools/Platforms: Embedded C++, Embedded STL, C++14, C++17, C++20, UML, AUTOSAR, GCC, Clang, Google Test, Bazel, Git, OpenBSW

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

July 2009 – June 2015

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

Software Engineer

Unterschleißheim, Germany

Philosys Software GmbH

February 2005 – June 2009

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.

Programmer,

System Administrator

Berlin, Germany

Epigenomics AG

I-Systems

March 2001 – March 2002

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.

FREE SOFTWARE
PROJECTS
(VOLUNTARY,
SPARE TIME)

Developer

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

Debian Project

**September 2003 – September
2016**

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

Developer

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

Reichwein.IT Webserver

April 2020 – present

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.

Developer

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

Reichwein.IT Unicode Library

January 2021 – present

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.

Translator

<http://translationproject.org/>

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

Translation Project

June 2003 – July 2015

HOBBIES

Privately, I'm playing the electric bass and drums. Furthermore, I'm interested in microcontroller and automotive electronic projects.