

Curriculum Vitae

Dipl. Inform.
Karsten Richter
Turmstr. 61
46539 Dinslaken

Mobile: +49 151 16 13 93 02
Homepage: <http://www.karsten-richter.de>



Personal data

- Date of birth: June, 21st 1975
- Nationality: German
- Marital status: married

Education

- 6/1994 Abitur (university entrance diploma), Otto-Hahn-Gymnasium Dinslaken (1.7)
- 10/1995-10/2002 computer science, RWTH Aachen, Germany
- 5/2002 Diploma thesis „Implementation and evaluation of a network sensing agent transfer protocol“ (2.1)
- 10/2002 RWTH Aachen Diplom (German equivalent to M.Sc.) in computer science (2.0)
- 10/2003-6/2008 postgraduate studies in business sciences, Fernuniversität Hagen

Military service

- 10/1994-9/1995 RTTY operator at the 3rd StFmBtl 110, security clearance: NATO SECRET

Professional experience

- sync-tec GmbH, Dinslaken (<http://www.sync-tec.com>)
 - 10/2008-today: **CTO, managing partner**
 - Design and implementation of a device management prototype for the automotive industry (based on OMA DM technology, implemented in C++ on Embedded Linux (WindRiver))
 - evaluation of technical completeness and market readiness of device management products
 - speaker at Midas Conference 2008, London (device management in the automotive sector)
 - project management (IPMA, certification 08/2009)
 - system design of a SIM remote management and delegated management solution for a telecommunication customer
 - vehicle-specific low-level development of Android components for customers in automotive sector
 - embedded software development of KNX TP and RF home automation systems
 - integration of AWS cloud services in embedded systems
 - porting of Android AOSP to new hardware platforms (esp. automotive)
 - embedded software development in CMSIS, FreeRTOS, IAR on Cortex-M7
 - upgrade and maintenance of embedded software build systems in Yocto Zeus, Dunfell and Kirkstone on i.MX6 and i.MX8

- Geneva ID GmbH, Kevelaer (<http://www.geneva-id.com>)
 - 1/2007-9/2008: **senior IT consultant** system architecture and project management
 - architecture redesign and project management of an offer system for the insurance industry using AJAX technology in Java J2EE
 - project management for customer integration projects
 - establishment and optimization of development processes
 - design, analysis and optimization of scalable hardware infrastructure
- I-TEC GmbH, München (<http://www.i-tec-online.de>)
 - 8/2005-12/2006: **software engineer/consultant** in mobile communication business
 - 8/2005-9/2006 working for BenQ Mobile GmbH & Co. OHG, Kamp-Lintfort
 - Software and system architect
 - Design, Implementation and test of a statistical module as EJB WebService for remote diagnostics using OMA DM
 - performance optimization of servlet applications with EJB and Hibernate
 - system integration of client server applications
 - installation and integration of a supplied OMA DM server
 - Development
 - establishment of software configuration management using CVS
 - software development in C++ on Windows and Linux (MySQL, Oracle)
 - administration of FreeBSD and Linux (High Availability Server Farm)
 - Project management
 - Management of two strategic suppliers (OMA CP area)
 - Supervisor of the server- and database admin team
 - 10/2006-12/2006 **software architect and project manager** for internal and Off-Shore projects
 - architecture redesign of a management application for system test hardware for mobile communication devices
 - management of the off-shore developer team in Tunisia
 - quality assurance of the supplied development results
- Databay AG, Aachen (<http://www.databay.de>)
 - 11.2002-7:2005: **software engineer**
 - head of development for the FIRESTICK project (www.firestick.de)
 - design and maintenance of FireOS (Linux-Distribution based on LFS)
 - design and implementation of the FIRESTICK UI (Java Swing GUI)
 - 12/2004-4/2005: **consultant** at Ford Research Centre, Aachen, Germany
 - C++ development on Windows 2000 for the „INVENT“ navigation software research project

Skills

- programming languages:

main focus:	Java, C/C++, Ruby, Python
extensive knowledge:	SQL, PHP, Perl, Bash, Groovy, Assembler (ARM, AVR)
basic knowledge:	JavaScript
- operating systems:

main focus:	Linux, macOS
extensive knowledge:	FreeBSD, Windows

- network technology: Ethernet, TCP/IP, stateful inspection firewalls, VPN solutions (IPSEC, OpenVPN)
- databases: MySQL/MariaDB, Oracle, PostgreSQL
- telecommunication: GSM, UMTS, OMA DM/CP, Global Platform Card, SIM card OTA management, VoIP(SIP, RTP)
- frameworks: J2EE, Spring, JSF, OSGi, Qt, GTK, Amazon AWS, Android
- applied technologies: Git, Gradle, Maven, Jenkins, Gitlab, Yocto, buildroot, Artifactory
- development IDEs: VS Code, Eclipse, Android Studio, IAR EWARM
- architecture modelling: UML2
- development paradigm: agile software development (SCRUM)
- project management: IPMA Level D (08/2009))

Foreign Languages

- German: mother language
- English: business fluent
- French: basics
- Spanish: basics

Additional skills

- 7/1994 driving license (european class A and B)
- 6/1996 ham radio license CEPT class 2 (callsign DC7KR)
- 4/1997 C2 degree of the music academy in Heek, Germany (qualification as mandolin and guitar teacher)

Personal interests

- music (mandolin, guitar, piano)
- ham radio
- electronics (ARM and AVR micro controller-projects, home automation based on OpenSource components)

Last change: February 28th 2023