

## Profile

Programming languages: C, C++, Java, Python, SQL  
Standards and norms: CORBA, COM/DCOM, Java SE, Java EE, JPA, JUnit, JDBC, ODBC, JSON, REST, XML, SOAP, UML, Ethernet, X.25, TCP/IP, UDP, Modbus, HTTP, NTP, Time/Daytime, SNMP, SMTP, DHCP, SSH, Telnet, RTP, RTSP, H.264, CENELEC EN-5012x, VDV45x  
Frameworks and APIs: POSIX, Win32 API, ATL, MFC, ACE/TAO, JacORB, Swing, Spring Boot, Hibernate, Thymeleaf, JUnit, Mockito, Ant, Maven, Gradle, JNI, OCCI, Buildroot, BusyBox  
Methods: Agile software development / Scrum, V-Model  
IDEs: Eclipse, IntelliJ IDEA, Oracle Solaris Studio, MS Visual Studio, VI  
SCM tools: CVS, Subversion, Git, Rational Team Concert  
Project management: Rational Team Concert, Jira, Confluence  
Operating systems: Linux, Oracle Solaris, HP-UX, IBM AIX, HP OpenVMS, MS Windows, Mac OS X  
Databases: Oracle, DB/2, MS SQL Server, MySQL  
Industries: Transportation and Traffic, Energy, Telecommunication, Sports betting, Finance  
Languages: German, English, Croatian  
Nationality: Austria

## Education / Professional Experience

1992 - 1997 Higher Technical Institute Pinkafeld, Department IT and Organization  
1998 - 2000 RTS GmbH, Software Developer  
2000 - 2012 RDCS Informationstechnologie GmbH, Partner / Head of Software Development  
since 2012 Freelancer

## Projects

### ***Mobile Payment Solution***

Period: since 01/2019  
Customer: TWINT AG (CH)  
Industry: Finance  
Details:  
Backend Development and L3 Support for a Mobile Payment Solution

Responsibilities: Software Development, L3 Support  
Technology: Java 8, J2EE, JPA, Hibernate, SOAP, JUnit,  
Mockito, JBoss/WildFly, Git, IntelliJ IDEA,  
Gradle, H2, Oracle  
Platforms: Linux (CentOS/RHEL)

### ***Passenger Information System***

Period: 09/2018 - 12/2018  
Customer: Ruf Telematik AG (CH)  
Industry: Transportation and Traffic  
Details:  
Video surveillance system and infotainment solution for a  
passenger information system

Responsibilities: Software Development  
Technology: Java, Kotlin, C++, RTP, RTSP, H.264,  
Subversion, Git, Eclipse, IntelliJ IDEA, Ant,  
Gradle  
Platforms: Linux

### ***Rail Traffic Management System***

Period: 2006 - 08/2018  
Customer: Zillertaler Verkehrsbetriebe AG (AT)  
Innsbrucker Verkehrsbetriebe/Stubaitalbahn GmbH (AT)  
Niederösterreich. Verkehrsorganisations GmbH (AT)  
Industry: Transportation and Traffic  
Details:  
Core safety critical components, dynamic passenger information,  
database interface, proprietary cluster implementation, interfaces  
to external components (interlocking systems, radio data systems,  
voice radio systems, passenger information) using several standard

and proprietary protocols, time table planning, data analysis and archival, statistics and reporting modules

Responsibilities: Technical Project Lead, Software Architecture, Software Development, Documentation  
Technology: C, C++, Java, CORBA, ACE/TAO, JacORB, OCCI, ODBC, SQL, SNMP, Modbus/TCP, XML, VDV453, VDV454, Oracle RDBMS, UML, Eclipse, MS Visual Studio, Subversion, Rational Team Concert  
Platforms: Solaris (SPARC, x86), Linux (Debian, RHEL/CentOS), MS Windows

### ***Internet Portal for 24h care***

Period: 2016 - 2018  
Customer: 24hPflege.com (AT)  
Industry: Personal Care  
Details:  
Administration of agency and customer data, Web GUI, business logic, database interface

Responsibilities: Software Development  
Technology: Java 8, Spring Boot, Thymeleaf, Bootstrap, JavaScript, jQuery, Eclipse, Subversion  
Platforms: Linux (Debian), Mac OS X

### ***Software for Industrial Clock Systems***

Period: 2002 - 2012  
Customer: Hopf Elektronik GmbH (DE)  
Industry: Electronics  
Details:  
Base platform for Embedded Systems (Linux, U-Boot), drivers and kernel modules for PCI boards and proprietary hardware, proprietary and standard communication protocols via serial interface and ethernet, real time applications for high precision time synchronisation, configuration and data analysis tools

Responsibilities: Technical Project Lead, Software Architecture, Software Development, Documentation, Support  
Technology: C, C++, Java, Swing, JNI, Java CommAPI, Buildroot, BusyBox, CGI, NTP, SNMP, Eclipse, VI, Borland JBuilder, MS Visual Studio, Subversion, Rational Team Concert

Platforms: Linux (AMD SC520, ARM / Atmel AT9260,  
PPC / Freescale P2020, x86, AMD64), RealTime  
Linux, RTAI, U-Boot, MS Windows, INTime for  
Windows, Solaris (SPARC, x86), HP-UX (PA-RISC),  
AIX (RS-6000)

***Internet Horse Betting***

Period: 2004 - 2006  
Customer: Magna Entertainment Corporation (AT/CA/US)  
Industry: Sports betting  
Details:  
Business logic for a internet horse betting platform, totalizer  
interface, database interface

Responsibilities: Software Architecture, Software Development  
Technology: J2SE, J2EE, JDBC, SQL, SOAP, X.25, IBM  
Websphere Application Server, JBoss, IBM DB2,  
Eclipse, CVS  
Platforms: Linux (RHEL), AIX

***eBusiness Solution for Auction Houses***

Period: 2002 - 2004  
Customer: Galerie Zacke AG (AT)  
Industry: Art and Auction Trade  
Details:  
Backend for a modular eBusiness platform for auction houses,  
interface to other online trading platforms, parts of a rich  
client front end application

Responsibilities: Software Architecture, Software Development  
Technology: J2SE, J2EE, Swing, JDBC, SQL, Sun ONE  
Application Server, Oracle RDBMS, Sun ONE  
Studio, CVS  
Platforms: Sun Solaris (SPARC), MS Windows NT/2000

**Administration Application for a Rail Traffic Management System**

Period: 2000 - 2002  
Customer: Innsbrucker Verkehrsbetriebe/Stubaitalbahn GmbH (AT)  
Industry: Transportation and Traffic  
Details:  
Administration application for configuration, data evaluation,  
archiving and statistics  
  
Responsibilities: Software Development  
Technology: C++, Win32, MFC, ODBC, SQL, Oracle RDBMS,  
MS Visual Studio, MS Source Safe  
Platforms: MS Windows NT

**Internet Sports Betting**

Period: 2000  
Customer: Scientific Games International GmbH (AT)  
LOTTO Bayern / ODDSET Sportwetten GmbH (DE)  
Industry: Sports betting  
Details:  
Multithreaded application and database layer for an Internet  
sports betting application  
  
Responsibilities: Software Development  
Technology: C, C++, Win32, COM/DCOM, ODBC, SQL, MS SQL  
Server, Oracle RDBMS, MS Visual Studio, VI, MS  
Source Safe  
Platforms: MS Windows NT, OpenVMS

**Data recorder and report generator for nuclear power plant process control systems**

Period: 1999 - 2000  
Customer: Foxboro / Invensys / Schneider Electric (US/DE)  
Industry: Energy  
Details:  
Data recorder and real time processor for process variables,  
formula interpreter, report generator, configuration application  
  
Responsibilities: Software Development, Documentation  
Technology: C, C++, VB, Win32, COM/DCOM, ATL, MS Visual  
Studio, MS Source Safe

Platforms: MS Windows NT

***Configuration application for call centers***

Period: 1999  
Customer: Alcatel Austria AG (AT)  
Industry: Telecommunications  
Details:  
Configuration application with a GUI for call center software

Responsibilities: Software Development  
Technology: C, C++, Win32, MFC, MS Visual Studio, Rational  
Clear Case  
Platforms: MS Windows NT

***Multithreaded dispatching software for telephone systems***

Period: 1998 - 1999  
Customer: Alcatel Austria AG (AT)  
Industry: Telecommunications  
Details:  
Parser and code generator, which translates and interprets code  
from a proprietary scripting language into C++ code

Responsibilities: Software Development, Documentation  
Technology: C, C++, Win32, Flex, Bison, UML, MS Visual  
Studio, MS Source Safe, Rational Rose  
Platforms: MS Windows NT