

## Profile

### Education / Professional Qualification

- Master of Computer Science (University of Karlsruhe (TH), now known as KIT)
- Certified Provisional Automotive SPICE Assessor by Intacs
- Certified Quality Management Responsible (ISO9000ff) by TÜV Süd
- Certified IPMA-D by GPM.
- Certified Project Management Professional (PMP) by Project Management Institutes (PMI)
- Certified Scrum Master (CSM) by Scrum Alliance

### Key aspects

Project coordination, project management, quality management, software development processes, object-oriented analysis, object-oriented design, design for testability, C, C++, Java.

## Projects

### 2013-04 – present: Software quality management

Industry	Automotive
Description	Software quality management for suppliers of automotive devices and services, contracted by car manufacturer.
Team size	~250 ECUs through 6 car lines; 9 team members
Role	Consultant software quality assurance and software quality management, assessor, team lead
Duration	N/A

### 2018-01 – present: Internal process improvement

Industry	Automotive, medical devices
Description	Extension of company processes by software development processes for embedded automotive (following A-SPICE) and medical devices
Role	Project lead, technical expert
Duration	N/A

### 2018-03 – present: Instrument Cluster functionality

Industry	Automotive
Description	Integration of Instrument cluster functionality (speedometer, odometer, warnings and events) into a new cockpit generation. From proof-of-concept till start of production for several car lines.
Team size	30 team members, integrated into an agile project spanning several 100 members
Role	First quality manager, later project manager
Duration	N/A

### **2017-09 – 2018-12: Commissioning software for blood dialysis devices**

Industry            Medical devices  
Description        Test suite for commissioning and maintenance tests for blood dialysis devices.  
Team size          3 software developers  
Role                First quality manager, later project manager  
Duration           16 months

### **2013-02 – 2018-12: Technology circle project management**

Industry            Software project company  
Description        Conducting an internal training series on project management  
Role                Trainer, Moderator  
Duration            N/A

### **2012-04 – 2014-12: ISO9001 quality management responsible**

Industry            Software project company  
Description        Maintenance and recertification of existing processes following ISO9001:2008  
Role                quality management responsible  
Duration            N/A

### **2012-12 – 2013-10: Introduction of Scrum**

Industry            Automation  
Description        Introduction of agile processes (Scrum) for software product development  
Team size          1 Scrum team  
Role                Coach, trainer  
Duration            10 months

### **2011-08 – 2012-12: Driver guidance system for test track**

Industry            Automotive (commercial vehicles)  
Description        Exact tracking of position and speed of vehicles on a test track, using DGPS. Transmission to control station server and application server. Persisting data in database. Editor for creation of test programs for vehicles. Reporting modules. Graphical visualization of traffic on test track. Optimized routing of several vehicles on track in real-time.  
Platform           Win XP, Java JDK 1.6, Eclipse RCP + RAP, OSGI, MS SQL Server, Apache Axis 2, Apache Tomcat, Apache FOP, XML, XSLT, Spring, GPS, Wlan, Open GL, JUnit, Ant  
Team size          2 developers  
Role                Project manager  
Duration            17 months

### **2011-07 – 2017-06: Volkswagen Bedien- und Anzeigeprotokoll**

Industry	Automotive
Description	Maintenance of the official implementation of Volkswagen company for the standard interface between control devices and user interaction devices. Also usable as AUTOSAR complex device driver. Including code and simulation generators.
Platform	C/C++, Java, Ant, XML, XML-Schema, AUTOSAR, DaVinCi, MULTI, gcc, gcov, CAPL, CANoe.
Team size	2-5 developers
Role	Project manager
Duration	N/A

### **2009-12 – 2010-12: WEINMANNsupport 1.07, SOMNOlab 2.09**

Industry	Medical devices
Description	Maintenance of PC software for control and diagnosis of breathing devices. Coordination of a distributed interational team in Karlsruhe, Hamburg and Tomsk (Russia). Introduction and optimization of agile elements into the development process.
Platform	VB, .NET.
Team size	Core team 15 members
Role	Requirements analyst, project manager, Scrum master
Duration	12 months

### **2008-12 – 2009-01: FactoryTalk Pharma Suite 1.1**

Industry	Life Sciences
Description	Extension of a weighing and dispensing module for the pharmaceutical industry with container management capabilities
Platform	Java, J2EE, P-Nuts, FactoryTalk ProductionCentre, Oracle, SQL-Server
Team size	Core team 20, whole team ~30
Role	Project manager / Scrum master
Duration	2 months

### **2007-05 – 2008-11: FactoryTalk Pharma Suite 1.0**

Industry	Life Sciences
Description	Implementation of a weighing and dispensing modules as first component of a whole Management Execution System suite for the pharmaceutical industry
Platform	Java, J2EE, P-Nuts, FactoryTalk ProductionCentre, Oracle, SQL-Server
Team size	Core team 30, whole team ~45
Role	Project manager
Duration	19 months

#### **2006-05 – 2007-10: Relocation of premises**

Industry	Facility Management
Description	Selection of a fitting building, decision for new building, floor planning, Relocation planning, Relocation coordination
Platform	--
Team size	Core team 6
Role	Project member
Duration	17 months

#### **2006-09 – 2007-05: Rockwell Software PMX Adapter for FactoryTalk Integrator**

Industry	Life Sciences
Description	Integration of the well-established PMX MES with SAP and other ERP systems via IBM WebSphere Business Integration
Platform	Windows 2000 Server, C++, Python, Java, IBM WebSphere Business Integration
Team size	Core team 3, whole team ~8
Role	Project manager
Duration	9 months

#### **2005-03 – 2006-08: Rockwell Software PMX CTM 4.0.0**

Industry	Life Sciences
Description	Version 4.0.0 of a product supporting the execution of clinical studies for pharmaceutical drugs
Platform	Windows 2000 Server, Citrix Server, Oracle 9, C++, Python, Java, Eclipse
Team size	Core team 6, whole team ~20
Role	Project manager
Duration	17 months

#### **2004-06 – 2004-12: Quality support for embedded software development**

Industry	Automobile
Description	Support for the quality assurance for a mission-critical project in automobiles via establishing and implementing unit tests, execution of a FMEA on timing aspects, and code quality analysis using FlexLint
Platform	C++, Linux, PSOS, CPPUnit, PC-Lint.
Team size	7 (embedded in a team >100)
Role	Project manager, analyst, designer, developer, and tester
Duration	7 months

#### **2004-04 – 2004-06: Comfort functionality in a passenger plane**

Industry	Avionics
Description	For an important comfort functionality in a passenger plane, requirements analysis including UML, including high-level test cases
Platform	Cygwin, ARTiSAN Real-Time Studio, Telelogic DOORS, Rational ClearCase
Team size	3
Role	Project manager, Requirements analyst.
Duration	2 months

#### **2004-01 – 2004-04: Version management in a plane**

Industry	Avionics
Description	Development of a library for a multi-version persistence model of master data in a plane, following DO-178B Level C and D
Platform	Cross-development using Windows for VxWorks and RTS-OS, C, Cygwin, ARTiSAN Real-Time Studio, Telelogic DOORS, Rational ClearCase, Verified RT-Tester
Team size	2
Role	Project manager, designer, developer
Duration	4 months

#### **2003-06 – 2003-12: Market planning and sales**

Industry	Automobile
Description	Development of an extranet-capable 3-tier system for world-wide management of market planning data (Extension and upgrade to the project from 1997-1999)
Platform	Windows 2000 Server, Oracle 8.1.7, Java, JDK 1.3, J2EE, EJB 1.1, POI, C++, Rogue Wave DBTools.h++, CORBA Borland VisiBroker 5.1
Team size	9
Role	Project manager, consultant, requirements analyst, designer, developer
Duration	6 months

#### **2002-01 – 2003-05: Production management execution system for print shop floors**

Industry	Automation
Description	Participation in requirements analysis, specification and implementation of the system. Coaching of the project team. The system was oriented at the print document exchange format JDF. Implementation based on an existing EJB framework.
Platform	Windows 2000, Java, J2EE, EJB, JBoss, Oracle
Team size	10
Role	Subproject manager, coach, requirements analyst, developer
Duration	15 months

**2001-02 – 2001-11: Surfpad**

Industry Energy provider  
Description Development of software for a surfpad  
Platform Java, Food, WinCE3  
Team size 11 (embedded in a team of >50)  
Role Project manager, consultant  
Duration 22 months

**2000-08 – 2001-04: Market forum**

Industry Building industry  
Description Development of a B2B platform for bid execution up to contract conclusion using the internet  
Platform Java, Food  
Team size 8  
Role Project manager, designer, developer, consultant  
Duration 9 months

**2000-03 – 2000-07: OptiCAA**

Industry Semiconductor  
Description Development of a system to assist correct alignment of lens mounts  
Platform Windows NT, C++, COM, MFC  
Team size 4  
Role Consultant, developer  
Duration 4 months

**1999-10 – 2000-09: Driving assistance system**

Industry Automobile  
Description Development of a system intelligently (rule based) cross-linking current and future driving assistance systems within a modern cabin car  
Platform Windows NT, C++, COM  
Team size 4  
Role Designer, developer  
Duration 12 months

#### **1997-02 – 1999-09: Market planning and sales**

Industry	Automobile
Description	Development of an extranet-capable 3-tier system for world-wide management of market planning data
Platform	Windows NT, Oracle, C++, Java, DBTools.h++ (RogueWave), CORBA VisiBroker (Inprise), Netscape Navigator
Team size	4
Role	Project manager, designer, developer, consultant
Duration	Realized in several increments within 20 months

#### **1997-09 – 1998-01: Classification of persistent objects**

Industry	Automation
Description	Extension of an existing system with persistent objects with the capability to add categories and attributes to those objects
Platform	Windows 95/NT, Oracle, C++, DBTools.h++ (RogueWave)
Team size	2
Role	Developer, project manager
Duration	5 months (with ~30% utilization)

#### **1996-05 – 1996-09: Database abstraction layer**

Industry	Semiconductor
Description	Creation of a database layer to allow object persistence
Platform	Windows 95/NT, MS Access, C++, MFC, MS DAO
Team size	2
Role	Developer
Duration	5 months (with ~50% utilization)

#### **1994-10 – 1997-08: Virrel**

Industry	University
Description	Development of an interactive text-based multi-user virtual reality (MUD)
Platform	LPC (C++ dialect), UNIX
Team size	10
Role	Developer, project manager, trainer
Duration	16 months (with ~50% utilization)

## Conception and execution of the following workshops

- **Introduction to Automotive SPICE**  
Motivation, concepts, details of VDA scope; 1-3 days
- **Introduction to Scrum**  
Motivation, concepts, usage in fixed price and T&M projects, agile requirements analysis, eXtreme programming, Kanban; 1 day
- **Object oriented analysis and design (OOAD)**  
OO basics, introduction to UML, software development models; 3 days
- **Unified Modeling Language**  
Methodical software development using UML, introduction to all diagrams; 3 days
- **Design Patterns**  
Motivation, introduction, selected patterns of the gang of four; 2 days
- **Introduction to the programming language C++**  
Basics, language elements, Standard Template Library; 5 days
- **Introduction to the programming language EC++**  
Basics, language elements, Outlook to C++; 5 days

## Speeches

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|------------|--|
| 2010-11-15 | “Scrum and process norms – does it fit?”<br>PM-Summit of PMI Munich Germany Chapter  |
| 2008-10-31 | “Scrum – try another way” (with Rauthgundis Reck, Allianz AG)<br>Alumni meeting of GPM-trainings at CSC Ploenzke, Wiesbaden                  |
| 2007-10-26 | “From PMF to PMP – comparing project managers’ certificates and organizations”<br>Alumni meeting of GPM-trainings at CSC Ploenzke, Wiesbaden |

## Publications

- „Challenges for the Test of Automotive Components – what the Automobile Industry can learn from Avionics on Software Quality“ (with Dr. Jochen Kreuzinger), Elektronik Automotive 6/2004 (in German)
- „Safety lies in Self-Restriction – not all Programming Methods are welcome in Avionics Environments“, Computer Zeitung Nr. 37 / 6. September 2004 (in German)

## Professional Affiliations

- Scrum Alliance
- Gesellschaft für Projektmanagement (GPM), member of International Project Management Association (IPMA)
- Project Management Institute (PMI)