

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 Product Safety and Conformity Responsible (VDA QMC) by TÜV Süd
- Certified IPMA-D by GPM.
- Certified Project Management Professional (PMP) by Project Management Institutes (PMI)
- Certified SAFe 6 Agilist
- 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

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 / 2022-12: 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	40 team members, integrated into an agile project spanning several 100 members
Role	First quality manager, later project manager
Duration	N/A

2013-04 / 2021-12: 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

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

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

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

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 Functional Safety (ISO 26262)**
Motivation, basic concepts; 1 day
- **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; 1-2 days
- **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?”
PM-Summit of PMI Munich Germany Chapter |
| 2008-10-31 | “Scrum – try another way” (with Rauthgundis Reck, Allianz AG)
Alumni meeting of GPM-trainings at CSC Ploenzke, Wiesbaden |
| 2007-10-26 | “From PMF to PMP – comparing project managers’ certificates and organizations”
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)