

<b>Education</b>	University of Kiel 1990–1997 Physicist (Thesis at the Institute for Astrophysics on numerical calculations in the field of relativistic quantum mechanics) Functional Safety Engineer (TÜV Rheinland, #8353/14)
<b>Qualification</b>	Senior process consultant, project manager
<b>Practical Experience</b>	15 years
<b>Main Emphasis</b>	<ul style="list-style-type: none"><li>• Requirements engineering and modelling</li><li>• Functional Safety</li><li>• Vehicle Diagnostics</li></ul>
<b>Experience/ Projects</b>	<p><b>since 04/2006 ServiceXpert GmbH</b></p> <ul style="list-style-type: none"><li>• Samsung SDI Co.<ul style="list-style-type: none"><li>◦ Review Processes and Quality Assurance for Technical Engineering Approval (BMG) for end customer VW</li></ul></li><li>• Ford Motor Company<ul style="list-style-type: none"><li>◦ Process consulting with focus on the global requirements engineering at Ford EESE</li></ul></li><li>• Würth Elektronik ICS<ul style="list-style-type: none"><li>◦ Definition of product development process and supporting processes, considering the ISO 26262, including a road map to achieve SPICE level 2</li></ul></li><li>• Volvo Cars<ul style="list-style-type: none"><li>◦ Analysis of test/integration process and working-out of recommendations</li></ul></li><li>• MAN Truck &amp; Bus<ul style="list-style-type: none"><li>◦ Project support for the process and data management system MAN-dis®</li><li>◦ Specification of the diagnostic system MAN-cats® III including support for RFI and RFQ</li><li>◦ Telematic concept</li></ul></li><li>• Brose-SEW<ul style="list-style-type: none"><li>◦ Performance of a FMEA for a DC-excited synchronous electric motor</li><li>◦ Training on requirements engineering and management</li><li>◦ Analysis of Functional Safety Requirements</li></ul></li><li>• MAN Diesel &amp; Turbo<ul style="list-style-type: none"><li>◦ Service Processes and tool support in diagnostics</li></ul></li><li>• Volkswagen AG:<ul style="list-style-type: none"><li>◦ Management of sub-projects within the development of ODIS Creator</li></ul></li><li>• Airbus S. A. S.:<ul style="list-style-type: none"><li>◦ Evaluation of modeling languages and tools for the IMA specification (Integrated Modular Avionics)</li><li>◦ Test and integration of modules for the Resource BITE system in IMA modules for A380/A400M</li></ul></li></ul> <p><b>04/2001 - 03/2006 TietoEnator AG, formerly SESA AG, formerly TESCO Software Systems Testing Ltd.</b></p> <ul style="list-style-type: none"><li>• Bosch Security Systems:<ul style="list-style-type: none"><li>◦ Test management including the moderation of the</li></ul></li></ul>

## Change Control Board

- Basler AG:
  - Process consulting including test process definition
- Nord-Micro AG & Co. OHG:
  - Regression test for the exhaust valve timing (Project Boeing B737 Outflow Value Upgrade) including project management
  - Test development and management for A- and C-level software (DO 178 B) (Project Embraer ERJ 170/190 CPCS) including the adaptation of the test environment (IPL CANTATA)
- Robert Bosch GmbH:
  - Software test for brake systems and test automation
- SMART Electronic Development GmbH:
  - Testing of a battery management system

**Presentations****MOBILE MACHINES 2015, Karlsruhe, May 2015**

Transferring the ISO 26262 to the remote diagnostics of mobile machines

**VDI conference „Elektrik/Elektronik im Nutzfahrzeug“, Baden-Baden, September 2014**

Aspects of functional safety in vehicle diagnostics

**FISITA 2014 World Automotive Congress 2-6 June, Maastricht, the Netherlands**

Aspects of functional safety in end-2-end diagnostics

**5<sup>th</sup> EUROFORUM Conference “ISO 26262”, Stuttgart, September 2013**

Vehicle diagnostics via Connected Car – Impact on functional safety / risks

**Technologies/ Tools**

**Programming and modeling languages:** SysML, UML, BPMN, XSLT, JavaScript, Python, Java/Eclipse, C/C++, DXL (Telelogic DOORS), ADA, FORTRAN 77, PHP5

**Tool Experience:** Sparx Enterprise Architect, MS Project, Altova XMLSpy, PTC Arbortext EPIC Editor, PREEvision, CATEGA (Airbus), IPL Cantata, PVCS Tracker, Telelogic DOORS, Polaron, Wireshark, CANoe, APIS IQ-FMEA, MS Office

**Protocols:** UDS, KWP2000, CAN, AFDX, Ethernet

**Languages**

German (native speaker), English (fluently), Spanish (basics)

**Further Experience**

Diagnostic processes, quality assurance in system development, UML/SysML, domain-specific modeling languages, FMEA

**Knowledge of standards:** DO-178B, ISO 26262, ISO 13849, Safety Integrity Level (SIL, EN 61508), Automotive SPICE, ISO29148, CEN / RMI (EURO V/VI)