

ANDRÉ SCHAUER

Systems Engineering Expert (M. Sc.)

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Im Unterwald 37, 67661 Kaiserslautern



PROFESSIONAL SUMMARY

Experienced Systems Engineer with over 10 years of automotive expertise in drivetrain development, model-based systems engineering, ASPICE, requirements and architecture management, and functional safety. Proven track record in process and tool implementation (CARIAD, Schaeffler) and development of scalable modeling and simulation solutions for e-mobility, ADAS/AD, and software-defined vehicles. Strong communicator and team lead passionate about pragmatic, sustainable system development.

PROFESSIONAL EXPERIENCE

Senior PMT Architect Eng. Architecture ADAS/AD CARIAD SE

⌚ 2025 – Ongoing 📍 Mönshiem

- Established and rolled out software specification language tooling and methods.
- Developed and automated specification language for end-to-end traceability and audit readiness.

Senior PMT Architect Eng. Environemnt SDV CARIAD SE

⌚ 2024 – 2025 📍 Mönshiem

- Established and rolled out model-based systems engineering processes from system to software architecture for software-defined vehicles.
- Developed and automated SysMLv2 toolchains in SysIDE for end-to-end traceability and audit readiness.
- Implemented PMT solutions with ArchE/MPS to optimize engineering workflows.

Senior Systems Engineer ADAS/AD CARIAD SE

⌚ 2022 – 2024 📍 Mönshiem

- Introduced and scaled MBSE methods for driver assistance and autonomous driving functions.
- Created profile extensions and metamodels in CAMEO to unify safety and system requirements.
- Integrated functional safety aspects into MBSE models and simulation workflows.

Senior Systems Engineer Process, Method and Tool Development(PMT)

Schaeffler Automotive Bühl GmbH & Co. KG

⌚ 2019 – 2021 📍 Bühl

MY LIFE PHILOSOPHY

"Pragmatic Systems Engineering is my passion. Perform and enable structured development for sustainable, safe and performing systems."

CERTIFICATION

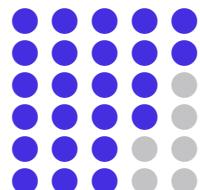
2021 Systems Engineer Professional CSEP

2022 Functional Safety Professional Red Belt

2023 Software Architect Professional CSAP-F

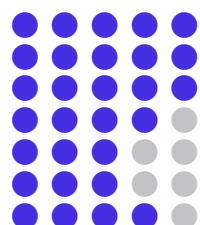
CORE COMPETENCIES

MBSE & Modeling
Requirements & PMT
Toolchains & Automations
ISO 15288, ISO 26262
Simulation & Control
ASPICE & Functional Safety



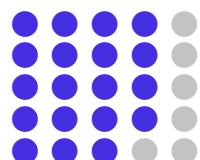
TOOL SKILLS

SysMLv2/SysIDE
CAMEO Systems Model
ArchE (MPS)
Enterprise Architect
PTC Integrity / AVW
Codebeamer
MS Office



PROGRAMMING

Python
MPS
Java
RUST
C++



- - Designed and harmonized PMT solutions for e-mobility (ASPICE CL2→3), including model-supported process development, templates, guidelines, and tool integrations.
- Developed project-specific profile language extensions and end-to-end traceability from requirements to test.

System Engineer System Integration, Team Concept Development System and Actuation

Schaeffler Automotive Bühl GmbH & Co. KG

⌚ 2014 – 2018

📍 Bühl

- - Led system development of modular hydraulic actuators for drivetrain functions (clutch, park lock, cooling).
- Conducted concept simulations and hardware-in-the-loop tests using MATLAB/Simulink and Enterprise Architect.

SELECTED PROJECTS

SDV Product Development

Enabler Model-based Systems Engineering

⌚ 2024 – Ongoing

Developing methodology, architecture & tooling for product use cases by starting from product requirements, developing the system architecture and elaboration of software, hardware and mechanical component requirements.

Software Gateway Development ADAS/AD

Enabler Vehicle Data Model Specification

⌚ 2024 – Ongoing

Developing methodology and specification of a vehicle data model for ADAS/AD to specify and generate software interfaces of AOS Gateways

Feature Development ADAS/AD

Enabler Model-based Systems Engineering

⌚ 2022 – 2023

Developing driving features in the fields of ADAS/AD starting with elaborating stakeholder needs, derivation of system requirements and breakdown to software components.

E-Mobility PMT Harmonization

System Architecture & Design Lead PMT

⌚ 2019 – 2021

Harmonizing group wide PMT solutions to one common solution for the business unit E-Mobility to achieve a compliance of norms, standards and Automotive SPICE ® CL3.

Advanced Project – Hybrid Drivetrain Actuation Systems

Systems Engineering Lead

⌚ 2015 – 2019

Development of a modular hydraulic actuation system for actuation of several drive train functionalities like Clutch System, Parking Locks or Cooling.

SOFT SKILLS

Abstraction Fast perception
Coaching Fast Learner
Team-Player Motivator & Leader

LANGUAGES

German English

EDUCATION

M.Sc.– Diplom
Electronics • Mechatronics
Master's thesis: Energy-based control to actively reduce vibration in flexible multi-body systems

Technical University Kaiserslautern

⌚ 2008 – 2014

Abitur

Hohenstaufen-Gymnasium Kaiserslautern

⌚ 1998 – 2007

DRIVERS LICENSE

German Drivers Licence – B

⌚ 2005

Trained Driver – A

CARIAD

⌚ 2023

HOBBIES

MTB Watersports
Hiking