

# 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

📍 Mönsheim

- 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

📍 Mönsheim

- 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

📍 Mönsheim

- 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

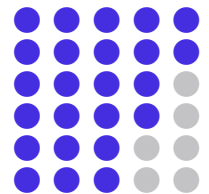


2023

Software Architect Professional CSAP-F

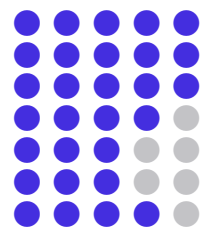
## CORE COMPETENCIES

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



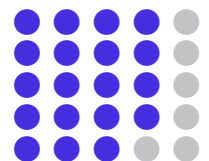
## TOOL SKILLS

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