

Razvan-Cristian Has

Making the world a safer place through systematic application of Systems and Safety Engineering

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Education

Technical University of Munich, M.Sc. in Automotive Engineering – Munich, DE Apr 2020 – Feb 2024

- Focus areas: ADAS and Automated Driving; Electric Powertrain and Control Theory
- Semester Thesis: “Development of a hybrid method for the motion prediction of other traffic participants” ([MAN – Hamburg TruckPilot](#))
- Master Thesis: “Development of a mid-level sensor fusion perception model for 3D Object Detection”

Leibniz University Hannover, B.Sc. in Mechatronics – Hanover, DE Oct 2015 – Mar 2020

- Bachelor Thesis: „Design of a control system for the all-wheel drive of a PHEV with electric rear axle“

Work Experience

Staff Systems Engineer, PlusAI – Munich, DE (remote) Feb 2023 – present

Development of Autonomous Driving Trucks targeting operations across the United States and Europe. Joined as the 11th member of the Munich office; promoted twice since.

- Tech Lead, V&V Strategy — leading the verification and validation effort behind the release of the system for driverless, unsupervised public-road operation, negotiating and tracking the Software and Data Engineering deliverables that produce the objective evidence backing the Safety Case
- Responsible for the verification and validation of the Functional Safety Concept (ISO 26262), and for the V&V strategy that forms a core pillar of the overall safety case (ISO 21448 SOTIF)
- Designing the test environments and the methods that go in them — software- and hardware-in-the-loop, closed course and public road — each targeted at the faults, failures or performance insufficiencies that level can actually reveal
- Agile systems engineering in place of stage-gate reviews — problem, solution, implementation, verification and validation spaces (ISO 15288) held in baseline and re-derived on every stakeholder change request or public-road learning, traced granularly in PALM
- Established technical compliance from a greenfield: integrated a digitised-legislation provider (Certivity) with Jama Connect and defined the process that turns layered UN, EU and German regulation into traceable stakeholder requirements
- Brought up scenario-driven testing for Scania within the [TRATON L4 Autonomous Driving programme](#), tracing requirements through closed-course execution to release documentation and releasing for supervised public-road testing fortnightly — now being adopted as the programme’s global process
- Internal process auditor and provisional ASPICE assessor for the organisation, and its first point of contact for business units pursuing process compliance
- Project Lead for the [IVECO L4 Autonomous Driving programme in Spain](#)
- Leading development of PALM, the in-house Application Lifecycle Management tool replacing Jama Connect — an enterprise application compliant with ISO 9001, ISO 27001 and ISO 26262 Part 8 tool qualification, built through agentic workflows and shipped fortnightly
- Mentoring systems engineers and programme managers; advising directors and VPs on technical direction

Systems Engineer, ArgoAI – Munich, DE July 2022 – Feb 2023

Development of Robotaxis for Ford and Volkswagen targeting operations across the United States and Europe.

- Validation metrics for perception functions, producing safety-case evidence at fleet scale

Business Development Working Student, Blickfeld – Munich, DE June 2021 – July 2022

- Stakeholder requirements for an automotive LiDAR, decomposed from NCAP and the L4 driving task

Research Working Student, BMW AG – Munich, DE

July 2020 – June 2021

Development of BMW's Driving Simulator facilitating early validation and pre-development of new ADAS and HMI concepts.

- Integration of new hardware and model development to improve the fidelity of noise, harshness and vibration within BMW's driving simulators
- Independent recognition and initiation of automated calibration procedures
- Participation in early technology studies such as BMW Personal Pilot L3 and BMW Private Audio Zone

Bachelor Thesis, Volkswagen AG – Wolfsburg, DE

Sept 2019 – Apr 2020

Bachelor Thesis in VW's Longitudinal and Lateral Dynamics R&D department involved in a pre-development project of a new Hybrid Powertrain Concept.

- Patent Application: "Method for detecting spinning of a wheel of a vehicle"
- Research in the field of control of novel electrified powertrain concepts
- Process development and execution of simulative and real test procedures

Intern, AUDI AG – Ingolstadt, DE

Sept 2016 – Mar 2017

Development of AUDI's Automated Guided Vehicle (AGV) within the technology development for manufacturing assistance systems department.

- Conceptual design and implementation of a Fleet Manager (JAVA) and a real time Visualization of the production hall in Unreal Engine (C+++) for the AUDI AGV
- Efficiency increase and cost reduction through automated functionality tests

Extracurricular Activities

Technical Lead, then Team Captain, HorsePower Hannover e.V. – Hanover, DE

Mar 2017 – Aug 2019

Three seasons of Formula Student Driverless, from the category's inaugural year, developing autonomous racecars for the international engineering competition.

- Technical Lead for the driverless programme in its first season, joining mid-season as Formula Student Germany introduced the new category
- Team Captain leading 24 students: rebuilt the team after a complete roster turnover, owning recruiting, sponsor acquisition, budget and logistics alongside technical direction
- Developed the driving dynamics control software — launch control and torque vectoring across four electric wheel-hub motors

Skills

Languages: German (C2), English (C2), Romanian (Native Speaker)

Methods: Requirements Engineering, System Architecture, V&V Strategy, Functional Safety (ISO 26262), SOTIF (ISO 21448), FMEA and inductive/deductive safety analysis, Automotive SPICE (provisional assessor)

Tools: Jama Connect, Enterprise Architect, Certivity, Jira, Confluence, MATLAB & Simulink, dSpace ControlDesk

Programming Languages: Python

Patents

1. Verfahren zum Detektieren eines Durchdrehens eines Rades eines Fahrzeuges ([DE 10 2020 208 741 A1](#))

Invited Talks

2. Scalable V&V frameworks for Level 4 autonomous trucking — Autonomous Vehicle Tech Expo Conference (Stuttgart, Germany 2026)
1. PlusAI's SOTIF-Driven V&V Strategy for Safe Autonomous Trucks — VDI Conference Electric and Electronics in Commercial Vehicles (Bonn, Germany 2025)