

# Mikhail Smolin

Mercedes-Benz Group AG  
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## Professional Experience

04/2020 - **Lead Software Architect**, *full-time*, IT Communication & Legal

Present Mercedes-Benz Group AG, Stuttgart, Germany

- Technical leadership and execution of full lifecycle digitization and automation IT projects.
- Vendor management to ensure adherence to budget, schedule, and overarching IT strategy.
- Responsible for understanding business requirements and providing solution architectures.
- Benchmarking and identification of tech innovations for internal and external stakeholders.
- Further development of the Integrity & Legal IT landscape in the Mercedes-Benz Group.
- Support security and compliance processes along with legal requirements at headquarters.

07/2019 - **Senior IT Architect**, *full-time*, Powertrain Production & Data Analytics

03/2020 Daimler AG, Stuttgart, Germany

- Lead digital transformation efforts throughout the larger Daimler AG powertrain landscape.
- Analyzed processes and requirements with international cross-departmental professionals.
- Collaborated with IT teams in production plants to help and define the user experience.
- Approved implementations, supported and coordinated developers and external partners.
- Support of IT in international locations, especially within the scope of piloting new APIs.
- Participated in various work packages of complex cross-plant strategic Daimler IT projects.

02/2017 - **Software Engineer**, *full-time*, UI & Web Solutions

06/2019 EXXETA AG, Stuttgart, Germany

- Full stack web and mobile development for major automotive OEMs and Tier 1 suppliers.
- Lead an international distributed workforce according to Scrum in an agile project setup.
- Interpersonal communication in cross-cultural project teams spanning different time zones.
- Planned, directed and coordinated all aspects of project activities within the work team.
- Managed personnel and budget issues, including tracking and reporting to stakeholders.
- Collaborated with external service providers to develop long-term strategic partnerships.

## Education

09/2023 - **Doctor of Philosophy, Computer Science**

Present Kyrgyz State Technical University, Bishkek, Kyrgyzstan

- Research in the field of machine learning, cybersecurity, and intrusion detection systems.
- Proposing a novel ensemble deep neural network learning model for intrusion detection.
- Implementation and empirical analysis of models with respect to real network traffic data.
- Publication of findings and insights in internationally leading conferences and journals.
- Mentoring of graduate students and assistance in course preparation and implementation.
- Contributing to the academic environment by participating in seminars and conferences.

03/2014 - **Master of Science, Computer Science and Media, Ø1.3**

01/2017 Stuttgart Media University, Stuttgart, Germany

- Thesis (Ø1.0): »Anomaly-based intrusion detection for automotive networks«
- I proposed the applicability of detecting cyberattacks on the vehicular CAN bus standard.
- Using network recordings of a modern sedan, a neural network was trained and evaluated.
- Courses: Machine learning, information privacy, secure systems, agile project management.

09/2015 - **Master of Science, Advanced Computer Systems Development, Erasmus Grant**

02/2016 University of the West of Scotland, Glasgow, Scotland

- I attended courses in data mining, cybersecurity, signal processing, and English proficiency.
- Implementation of an Android car diagnostic tool from in-vehicle sensor data using Java.
- Project: Mobile car diagnostics and performance application from OBD-II sensor data in the vehicle.

10/2010 - **Bachelor of Science, Business Informatics, Ø2.3**

02/2014 Ansbach University of Applied Sciences, Ansbach, Germany

- Thesis (Ø1.0): »Version verification of HIL test sequences in car ECU manufacturing«
- In cooperation with Robert Bosch GmbH (Bosch Automotive Electronics), I developed a group-wide Java desktop application in order to provide mechanical and software engineers a tool for analyzing and verifying automotive electronic stability program test sequences.
- Courses: Business economics and management, big data, software engineering, IT security.

## ■ Publications

- [1] M. Smolin, "GenCoder: A Generative AI-based Adaptive Intra-Vehicle Intrusion Detection System," *IEEE*, vol. 12, pp. 150651–150663, 2024. e-ISSN: 2169-3536, DOI: <https://doi.org/10.1109/ACCESS.2024.3476177>.
- [2] M. Smolin, "GenCoder++: A Protocol-Aware and Adversarially Robust Adaptive Intrusion Detection Framework for Hybrid CAN-Ethernet Vehicular Networks," *IEEE*, vol. 13, pp. 138381–138399, 2025. e-ISSN: 2169-3536, DOI: <https://doi.org/10.1109/ACCESS.2025.3595879>.

## ■ Languages

German	CEFR C2	Native Speaker
English	CEFR C1	Advanced
Russian	CEFR B1	Intermediate

## ■ Computer skills

Programming	Matlab, Python	Web	HTML5, JavaScript, XML
Database	MySQL, PostgreSQL	IDE	PyCharm, VS Code
Environment	MS 365, DevOps, Jira, L <sup>A</sup> T <sub>E</sub> X	OS	Linux, macOS, Windows

## ■ Extra

International driving permit



Stuttgart, August 27, 2025, Mikhail Smolin