

# Philipp Schmidt

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## Skills

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**Languages:** German (Native), English (Fluent), French (B1), Spanish (B1)

**Programming:** Java, Python

**Technologies:** Git, GitHub, Tomcat, Microcontrollers (Arduino), Vehicle Diagnostics (UDS, DTCs)

## Work Experience

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**Dr. Ing. h.c. F. Porsche AG**

*Weissach, Germany*

**Bachelor's Thesis - Diagnostics Development**

*Apr 2025 – Aug 2025*

- Developed a tracing algorithm that combines diagnostic trouble codes (DTCs) from peripheral ECUs with logs from zonal controllers using statistical methods, designed to run on in-vehicle embedded systems.
- Built a Java proof of concept to demonstrate feasibility.
- When implemented in production, the approach indicates potential for up to 30% data compression, improved encryption and anonymisation, simpler backend processing, and shorter workshop repair time.
- The patent is currently pending and an IEEE Open Journal of Vehicular Technology submission is in preparation.

**Part-time Software Engineer - Diagnostics Development**

*Jan 2025 – Mar 2025*

- Completed and shipped work started during the prior internship.
- Performed vehicle and ECU testing and deployed to production.

**Software Engineering Intern - Diagnostics Development**

*Sep 2024 – Dec 2024*

- Designed and built a test tool for Premium Platform Electric ECUs to validate diagnostic functions in early development phases.
- Extended Porsche's proprietary diagnostic software by adding comprehensive test cases in Java, improving functionality and coverage.
- Raised software and hardware quality in the release network through new tests, leading to projected annual savings of EUR 150k.

**Odenwald Quelle GmbH & Co. KG**

*Heppenheim, Germany*

**Part-time Software Engineer**

*Sep 2022 – Aug 2024*

- Designed and deployed a digital bulletin board for production staff without mobile access to streamline information flow.
- Built a web management platform with a Java backend for office users and a touch-optimised UI for production.
- Reduced publication time and paper use, improving operational efficiency and sustainability.
- Stack: Java, Tomcat, MySQL, JavaScript, HTML, CSS.

## Academic Education

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**Queen Mary University of London**

*Sep 2025 – (Sep 2026)*

*M.Sc. Data Science*

**Karlsruhe Institute of Technology**

*Oct 2022 – Sep 2025*

*B.Sc. Industrial Engineering and Management*

## Research & Publications

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**Verfahren zur Protokollierung von Diagnosemeldungen eines Kraftfahrzeugs (*Patent pending*)**

*Dec 2025*

(Procedure for logging diagnostic messages of a motor vehicle)

**Philipp Schmidt**, Dr. Sidney Körper

Patent application filed with the German Patent and Trade Mark Office (DPMA), No. DE10 2025 151 073.3.

**Implementation of “Algorithms for on-line order batching in an order picking warehouse” using Python**

*Jul 2024*

**Philipp Schmidt**, Maximilian Barlang

[10.5445/IR/1000172331](#) 