Mathias Dick

Dual Study student in Embedded Systems Automotive Engineering at Mercedes-Benz Germany with hands-on experience in ADAS and embedded software development. Skilled in Python, C/C++, and MATLAB, with a strong interest in working in Japan's innovative automotive environment. Actively learning Japanese (aiming for JLPT N2) and eager to contribute to cutting-edge R&D at Mercedes-Benz Japan.

Education and Qualifications

Bachelor of Engineering
Oct 2023 - Sep 2026

DHBW-Friedrichshafen, Friedrichshafen

Embedded Systems - Automotive Engineering

High School Diploma
Sep 2014 - Jul 2023

Ludwig-Wilhelm-Gymnasium, Rastatt

Advanced Courses: Mathematics, Physics, English

Work experience

Dual Study Student
Oct 2023 - Present

Mercedes Benz, Rastatt

Many different Projects. Most notable one:

ADAS Security Monitoring Framework (2024):

- Engineered a comprehensive security monitoring concept for ADAS control units, focusing on critical safety parameters
- Conducted systematic hardware component analysis of microcontrollers within automotive ECUs, identifying key monitoring points for system integrity
- Developed an extensive logging parameter database
- Architected and implemented a Python-based visualization interface using Flask framework with integrated filtering, reducing analysis time and enhancing cross-team collaboration

Assembly Line Work
Aug 2022 - Sep 2022

Mercedes Benz, Rastatt

Automotive Mechanic Intern
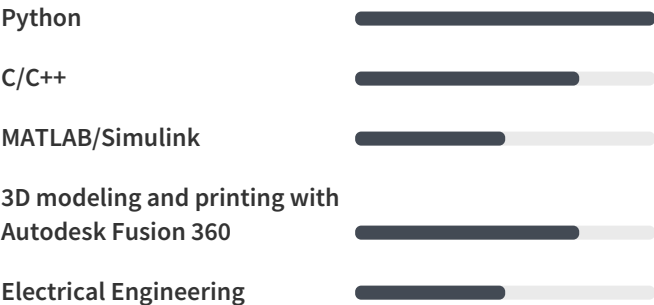Aug 2020 - Sep 2020

KFZ-Service Steinbrunn, Karlsruhe

Gained insight into the inner workings of various vehicle components under the supervision of the master mechanic.

Automotive Mechanic Intern
Aug 2021 - Sep 2021

KFZ-Service Steinbrunn, Karlsruhe

Worked on a variety of tasks (e.g., removing and repairing engines, removing and installing transmissions). Also assisted in customer intake on occasion.

Skills

Python

C/C++

MATLAB/Simulink

3D modeling and printing with Autodesk Fusion 360

Electrical Engineering

Personal

Name
Mathias Dick

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76479 Steinmauern

Phone number
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Email
mathias.dick16@gmail.com

Date of birth
21-11-2003

Place of birth
Baden-Baden

Gender
Male

Nationality
German

Driving license
B, BE

Interests

Soldering and electronics repair

Handicrafts

Sports

Playing Music (Piano and Guitar)

Languages

German	Native
English	Fluent
Japanese	Intermediate
Russian	Intermediate