

Yifeng Shen

Software Engineer

+49 (0)152 25220284 | evanshen95@gmail.com

EXPERIENCE

EDAG Engineering Group AG

Mar. 2022 - Feb. 2026

Software Engineer

Berlin, Germany

- **Autonomous driving, EDAG Project, Developer**
 - Developed ROS2 nodes in C++ for MPC-based trajectory planning using CasADi
 - Proof of Concept: created mock-up map data and visualized results using Matlab
 - Tested and calibrated the tractor on-site using Foxglove
- **Linux-based operating system testing, Volkswagen Project, Component Tester**
 - Designed test conditions and test cases in CodeBeamer based on requirements
 - Developed and executed test scripts using Robot Framework in Ubuntu environment
 - Documented results, reported defects, and maintained tests within CodeBeamer in an agile (Scrum) team
- **Elevator HiL test automation, OTIS Project, Developer**
 - Built a Python app with Tkinter GUI to parse serial data, interfacing with CANoe via pywin32
 - Integrated a Python-Matlab-CANoe interface over TCP/IP and implemented the CAPL API functions
 - Automated Simulink test model generation from Excel via a Python-Matlab code generator

ContiTech, Continental AG

Apr. 2021 - Sept. 2021

Internship

Hamburg, Germany

- Prototyped a software application in Figma for an RFID-based connector product
- Supported with labeling work of a machine-learning project aiming at golf training

E.ON Energy Research Center

May 2020 - Jan. 2021

Master thesis

Aachen, Germany

- Analyzed the mapping of IEC 61850 ASCII models and services into XMPP
- Extended an open-source C library “libiec61850”, and implemented XMPP services

NXP Cup National University Students Intelligent Car Race

June 2017 - Aug. 2017

Competition

Shanghai, China

- Programmed Kinetis K60 (core: ARM Cortex-M4) on UAV to process binarized camera data
- Programmed K60 on car to control motor and servo in order to navigate the car to lights

EDUCATION

Rheinisch-Westfälische Technische Hochschule Aachen

Oct. 2018 - Feb. 2022

Master of Science

Aachen, Germany

Electrical Engineering, Information Technology and Computer Engineering

GPA: 1.8 (best grade: 1.0)

East China University of Science and Technology

Sept. 2014 - July 2018

Bachelor of Engineering

Shanghai, China

Automation: Measurement and Control Technology & Instrumentation

GPA: 3.75 (best grade: 4.0)

- Honor: National Scholarship (Awarded to top 0.2% of students in China)

SKILLS

Languages: Mandarin (Mother tongue), English (Fluent, CEFR C1), German (Intermediate, CEFR B2)

Programming Languages: C (Experienced), C++ (Experienced), Python (Experienced), Assembly (Basic)

Development & Collaboration Tools: Git, Ubuntu, VS Code, JIRA, Confluence, JSON, LaTeX, MS Office

Build & CI/CD: CMake, Docker, Jenkins

Robotics, Embedded & Automotive: AUTOSAR, CANoe, IEC 61850, XMPP, ROS2, CasADi, Foxglove

Testing & Validation: Robot Framework, CodeBeamer, Simulink, Matlab