andreasoffenhaeuser

cloud solution architect

contact

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languages

native german
professional english
beginner japenese, french

programming

♥ nodeJS, JavaScript
Python, Matlab
bash, C, VBA

craftsmanship

software design
system understanding
agile methods
continuous deployment

education

2016 **Deep Learning** Foundation Nanodegree — Udacity

2007–2010 **Bachelor** of Engineering**, 1.3** — Hochschule Heilbronn, DE
Specialization in Control Systems Engineering

experience

2016– **Solution Architect** — Robert Bosch GmbH, Stuttgart DE
Responsible for backend architecture of connected vehicle services. This includes designing microservices according to domain driven principles as well as implementing features in our SCRUM team.
aquired skills microservice architecture, nodeJS, OSS compliance, agile software development

2014–2016 **Backend developer connected vehicle** — Robert Bosch GmbH, Stuttgart DE
Starting 2014 I was responsible for designing and developing a prototype system for a connected vehicle. It was a fullstack job where I was resonsible to manage a team of up to five to set up servers, develop backend & frontend as well as the vehicle communication. In 2015 the project left prototype state and a larger team was built up to develop the system with a more mature state. I was involved in selecting the team members and defining the development processes.
aquired skills nodeJS, AngularJS, Docker, project management

2012–2014 **Function developer for driver monitoring** — Robert Bosch GmbH, Stuttgart DE
Following my experiences as a test manager I switched sides and started developing algorithms for driver monitoring. This involved handling of larger data sets within Matlab and building a simulation environment capable of handling multiple thousands kilometers of test data to evaluate algorithm performance. With changing algorithms it was also necessary to develop new scoring functions. Development of series code was done according to automotive SPICE requirements. In 2013 I was also leading a 8 month project study with a german automotive OEM to identify the potential of new driver monitoring functions.
aquired skills statistics, data handling, requirements engineering, change management, Matlab, project management, ASPICE

2010–2012 **Test manager for driver monitoring software** — Robert Bosch GmbH, Stuttgart DE
Responsible for planning automotive software tests from unit to system level. On system level I was also responsible for designing and implementing the test environment for hardware in the loop simulation of a automotive ECU. This had to be integrated into existing quality frameworks and comply with functional safety according to ISO26262.
aquired skills systems engineering, project management, vehicle communication (CAN/FlexRay), test methodology, CANoe, VBA

2009 **Internship - motorcycle hydraulic simulation** Bosch Corporation, Yokohama JP

As part of my studies I accomplished a six months internship in Japan. My task was to create a simulation environment for motorcycle ABS systems. I had to collect requirements from different engineers, research motorcycle hydraulics and then develop a simulation with a user interface. The development was done in Matlab & Matlab Simulink.

aquired skills Matlab, systems engineering, fluid physics, GUI design

interests

- learning new technologies (blockchain, artificial intelligence, robotics, deep learning)
- share & exchange knowledge on meetups/confs
- skiing, biking, diving
- cooking