

andreasoffenhaeuser

cloud solution architect

contact

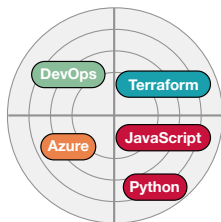
Stuttgart, Germany
offenhaeuser@gmail.com
[web anoff.io](http://web.anoff.io)
[github gh/anoff](https://github.com/anoff)
[twitter @anOxff](https://twitter.com/anOxff)

languages

native german
 professional english
 beginner japanese, french

craftsmanship

♥ Node.js, JavaScript
 Python, Matlab
 bash, C
 software design
 system understanding
 agile methods
 continuous deployment



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domains

cloud solutions
 automotive systems
 robotics

experience

2016–

Solution Architect

Robert Bosch GmbH, Stuttgart DE

Responsible for backend architecture of connected vehicle services. This includes designing cloud solutions according to domain driven principles as well as implementing features in our SCRUM team. I am familiar working with the Cloudfoundry PaaS stack for Microservices as well as designing and implementing Javascript based solutions on Microsoft Azure serverless components. Investing heavily into automation with Terraform my daily job lies somewhere between solution architect and software engineer.

acquired skills Node.js, OSS compliance, solution architecture, Cloudfoundry, Azure, Infrastructure as Code

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 responsible 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.

acquired skills Node.js, 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.

acquired 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.

acquired 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.

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

education

- 2017–2018 **Artificial Intelligence** Nanodegree Udacity
Pursuing a deeper understanding of AI fundamentals I chose to join the nanodegree program and improve my knowledge in game agents, probabilistics and other AI methods. In my third term I specialized in computer vision methods.
- 2017 **Deep Learning** Foundation Nanodegree Udacity
Intrigued and fascinated by the advances of artificial intelligence I wanted to get a deeper understanding of the topic and joined the class of Udacitys newly introduced Deep Learning program. Within the course I worked on several projects ranging from image recognition to generative networks.
- 2007–2010 **Bachelor** of Engineering, **1.3** Hochschule Heilbronn, DE
With a grant from Bosch I studied different fields of mechatronics and microsystems engineering. For my thesis I analyzed the influence of advanced driver assistance systems on steering based driver monitoring systems. The main focus was on data analytics and combined Matlab with scientific knowledge.
- 2005–2007 **Vocational training** Robert Bosch GmbH, DE
During my vocational training I learned the basics of engineering and how they relate to the physical world. The broad scope of topics covered in mechatronics also quickly made me realize my love for programming over the other possible fields in engineering.

interests

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

side projects

A selection of my OSS projects. For more see my [GitHub profile](#) or [website](#).

plantbuddy

A fullstack IoT solution to monitor plants. ESP8266 chip with device connectivity, serverless backend and a web frontend

demo one

3D graphics demo written in C++

deep emoji gan

An approach to use DCGAN neural networks to generate emojis

techradar

Framework to build custom technology radars, inspired by the [Thoughtworks Radar](#)

microllaborators

A distributed web app with serverless backend and augmented reality features.

serial-io

Node.js library to send serial commands with a promise based API