

andreasoffenhaeuser

software engineer/architect

contact

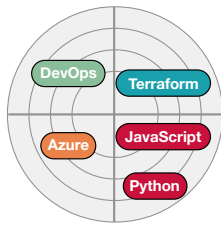
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languages

native german
 professional english
 beginner japanese, french

craftsmanship

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



Visit radar.anoff.io for my personal technology radar

domains

cloud solutions
 automotive systems
 robotics

experience

- 2019–
DevOps Architect Robert Bosch GmbH, Stuttgart DE
 Bringing my experience in the cloud solutions back into the embedded automotive world I left behind in 2014. My task is to migrate workloads like software build and test from on-premise solutions to cloud based solutions to increase speed and decrease costs by on-demand resource scaling.
 acquired skills Azure, Infrastructure as Code, C++ build environment
- 2019–2019
 3 months **Systems Architect** Robert Bosch GmbH, Stuttgart DE
 Working in the systems group of an autonomous vehicle project I set up development tools and processes that focus on rapid delivery and continuous feedback from idea to verification.
 acquired skills Systems Engineering Methods, Docs as Code, Azure Infrastructure
- 2016–2019 **Solution Architect** Robert Bosch GmbH, Stuttgart DE
 Responsible for backend architecture of connected vehicle services, I designed cloud solutions according to domain driven principles. I was also acting as team lead and part time product owner (6 months).
 acquired skills Node.js, OSS compliance, solution architecture, Cloud-foundry, 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. I managed a team of up to five people responsible for building up and integrating vehicle setup, backend and web frontend.
 acquired skills Node.js, AngularJS, Docker, project management
- 2012–2014 **Function developer for driver monitoring** Robert Bosch GmbH, Stuttgart DE
 My job involved handling of larger data sets within Matlab and building a simulation environment capable of handling multiple thousands kilometers of test data. Development of series code was done according to automotive SPICE requirements.
 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 as well as designing and implementing the test environment for hardware in the loop simulation of an automotive ECU.
 acquired skills systems engineering, project management, vehicle communication (CAN/FlexRay), test methodology, CANoe, VBA
- 2009 **Internship - motorcycle hydraulic simulation** Bosch Corporation, Yokohama JP
 My task was to create a simulation environment for motorcycle ABS systems. 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 Udacity's 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 **Mechatronics training** Robert Bosch GmbH, DE
During my vocational training with the IHK Heilbronn 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/conferences
- 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 moisture levels in potted plants. Running an ESP8266 chip with WiFi connectivity to collect moisture data as well as temperature and humidity data near the plant. Data is collected four times per hour and sent to a serverless backend running on Google Firestore. The backend enriches the sensor data with local weather information from OpenWeatherMap. A single page webapp written with the VueJS framework shows the sensor readings on an interactive chart.

devradar.io

Inspired by the [Thoughtworks Technology Radar](#) I decided to build a website to keep track of my technological skills. So called blips represent skills in different categories like languages, frameworks or methods and place them on a radar indicating the skill level. In my free time I am working on improving this project to build an ecosystem for competence management of developers and development teams.