



# Crowdcoding IT Solutions

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## General Information

Founded April 2017

Legal form UG (haftungsbeschränkt)

## Experience

- June 2018 – **Booking forecast project**, VW Data:Lab in cooperation with AUDI AG, Munich.  
August 2018
- Tool for forecasts of internal orders by selectable parameters
  - Based on historical data
  - Forecast implemented with Machine Learning methods
- May 2018 – **Webapp prototype**, software manufacturer from Aachen.  
June 2018
- Platform independent webapp incl. backend implementation
  - Booking vehicles from a company-intern carpool
- Dec. 2017 – **Data visualization project**, VW Data:Lab in cooperation with AUDI AG, Munich.  
April 2018
- Preprocessing script for data filtering in Python
  - Similarity analysis of ordered cars
  - Visualization of past preproduction commissions using Tableau
- April 2017 **Workshop**, AUDI AG, Evaluating preproduction commissions, Ingolstadt.
- Discussion of AUDI's commission system and possible improvements with preproduction and IT department
  - Brainstorming & development of prediction tool concept
  - Detailed report including concept specification & timeline

## Activities

- since April 2017 **Project Crowdcoding**, In-house production.
- Web platform idea for distributed software development

## Competitions

- June 2018 **Kreathon**, AUDI AG, Heilbronn.
- Camera-based assistance system for forklifts as low-cost solution
  - Awarded as best prototype
- May 2018 **Hackathon**, Gründerzentrum ("business incubator") of the RWTH Aachen with challenge posed by Digital Mobility Solutions GmbH (fleetbutler).
- Route optimization software to increase average battery range in EV carsharing
  - 2<sup>nd</sup> price

📍 Bachstr. 62-64 – D-52066 Aachen

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- Nov. 2017 **Hack.IAA**, Daimler AG, International Motor Show, Frankfurt (M).
  - Emergency lights detection prototype with machine learning for in car image recognition
- May 2017 **Hackathon**, Gründerzentrum (“business incubator”) of the RWTH Aachen with challenge posed by the 3M Corporation.
  - Parking rental tool using smart contracts with a custom blockchain simulation
  - 1<sup>st</sup> price
- Oct. 2016 **Smart Factory Hackathon**, AUDI AG, Ingolstadt.
  - Tool to predict bookings for better internal planning
  - Implementation using machine learning and heuristics
- April 2016 **Hackathon**, Gründerzentrum (“business incubator”) of the RWTH Aachen with challenge posed by the DSA Daten- und Systemtechnik GmbH.
  - App to analyse driving data with visualization and intelligent analysis of trips
  - 1<sup>st</sup> price

## Education

- since Oct. 2017 **Electrical Engineering, Information Technology and Computer Engineering (M.Sc.)**, RWTH Aachen University.
  - Specialization in Computer Engineering
  - Courses on machine learning, big data analytics and artificial intelligence
- since Oct. 2014 **Mechanical Engineering (B.Sc.)**, RWTH Aachen University.
  - Specialization in Automotive Engineering
  - Courses on simulation technology, control technology and thermodynamics
- since Oct. 2014 **Business Administration & Engineering: Mechanical Engineering (B.Sc.)**, RWTH Aachen University.
  - Specialization in Power Engineering
  - Courses on energy economics, operations research and decision making
- since Oct. 2018 **Business Administration & Engineering: Mechanical Engineering (M.Sc.)**, RWTH Aachen University.
  - Specialization in Automotive Engineering
  - Courses on operations research, production & logistics and private law

## Skills

### IT

Programming	Android (Java and XML), C/C++, Java, Go, Perl, Python, LabTalk (Origin), Delphi (Pascal), GNU Make, Web programming (JavaScript, HTML and CSS)
Development	Scrum, GitLab, Git <span style="margin-left: 100px;">Database MySQL, SQLite</span>
Office	LaTeX, Microsoft Office <span style="margin-left: 100px;">CAD Inventor, AutoCAD</span>

### Languages

German	Everybody fluent in speech and written language	<i>mother tongue</i>
English	Everybody fluent in speech and written language	<i>CEFR Level C1</i>
French	Advanced in speech and written language	<i>CEFR Level B1</i>

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