



Crowdcoding IT Solutions

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
 - 2nd price

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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
 - 1st 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
 - 1st 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 operations research, production & logistics and energy economics
- since Oct. 2014 **Business Administration & Engineering: Mechanical Engineering (B.Sc.)**, RWTH Aachen University.
 - Specialization in Automotive Engineering
 - Courses on operations research, production & logistics and private law

Skills

IT

Office	LaTeX, Microsoft Office	CAD	Inventor, AutoCAD
Development	Scrum, GitLab, Git	Database	MySQL, SQLite
Programming	Android (Java and XML), C/C++, Java, Go, Perl, Python, LabTalk (Origin), Delphi (Pascal), GNU Make, Web programming (JavaScript, HTML and CSS)		

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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