

professional summary

Engineering Expert Allrounder (Electrical, Mechanical, Construction & Design, Renewable Energies). Electrical Grid specialist effective in engaging and interacting with utilities worldwide. High achiever who produces results both individually and as part of a team. Passionate about the world of climate change and its services aiming for connecting and supporting in renewables energies and their impacts of the electrical grid. Inventor for the worldwide first algorithm-based artificial-intelligence expert system with recommendation from the U.S. NREL (National Renewable Energy Laboratory) by Dr Martin Keller (CEO).

skills

- working on both sides as utility professional engineer and renewable project developer
- technical decider about correctly procurement of electrical equipment from the global players SIEMENS, ABB, GE or Schneider Electric according to international guidelines (IEC, IEEE, AS, DIN)
- writing on Technical Standards and research papers
- connected with important technical universities around the world (e.g. UNSW, RWTH Aachen, MIT)
- deep understanding of technical details and electrical design in substations, grid connection of renewables and mechanical engineering with an economic-sustainable overview
- passionate in the history of the worldwide energy supply with deeply development skills

work history

CEO and Inventor

March 2017 - Current

NAP – Grid connection planning

Arnstadt, Germany

- responsible as a leader for grid extension projects in technical details from 220 kV to new 380 kV substations (e.g. Blackout awareness, primary design, steel construction, grid reliability & power quality topics, grid protection & environmental aspects) → Client: TSO [TransnetBW](#), Stuttgart
(March 2019 – present)
- evaluation of technical construction and grid connection equipment from solar- and wind farm project developers → Distribution Utility [NetzeBW](#), Stuttgart (October 2019 – present)
- responsible for a tender of all Smart Grid Automation Transformer Stations and technical leader for future sustainable technologies → Distribution Utility [Stromnetz Berlin](#) (January 2020 – present)
- grid connection expert and consultant for project developers, utilities and certification companies in specific topics around the world → [BayWa r.e.](#), [Jacobs Australia](#), [BECA New Zealand](#), [AusNet Services](#), [Westernpower](#), [DNV GL](#))
- international substation design in worldwide projects → WT EnergySystems (September 2017 – October 2018)
- over 50 succeeded solarcarport grid connection projects with EV charging stations in Germany
- German Chamber of Commerce presenter as CEO and Inventor in worldwide business conferences (USA, New Zealand, Canada and Brazil)

Substation Expert

October 2016 – February 2017

Thuringian Energy Grids, Distribution Utility

Erfurt, Germany

- writing Electrical Specifications and Guidelines especially for renewable energy grid connections
- organisation from switching operation letters
- substation senior manager and responsibility for accuracy substation execution construction

Work and Traveler

March 2016 – June 2016

DOCUVAN Ltd.

Melbourne, Australia

- clerical assistant for 3D scanning of engineering projects at AECOM and ExxonMobil
- energy studying in Australian University Libraries (e.g. Monash, UTS, UNSW, QUT, CDU, Curtin University)

Electrical Engineer (Onshore and Offshore wind farms)

October 2013 – December 2015

PNE Wind AG

Cuxhaven, Germany

- grid calculation studies and selection of electrical equipment (e.g. substations, cables, wind farm controller)
- wind farm commissioning in whole Germany
- international wind farm development in Romania, United Kingdom, Romania and Turkey
- leader of technical communication between electrical utilities and company interests
- supervisor for students in writing of project papers and Bachelor thesis

Renewable energy engineer

April 2011 – August 2013

BOREAS Energy

Dresden, Germany

- project development for solar- and wind farms
- international wind farm development in France and Poland
- wind turbine dispatcher and system operator
- grid calculation with software PowerFactory (load-flow, short-circuits, harmonics, protection concepts)

education

Guest Student

December 2019 – February 2020

University Stuttgart & TU Darmstadt – (e.g. Overhead Lines, Gas-Insulated Switchgears)

Stuttgart, Germany

Guest Student

April 2019 – July 2019

University Stuttgart – (e.g. Transmission Grids, Photovoltaics 1 and 3, Smart Grids)

Stuttgart, Germany

Guest Student

April 2018 – January 2019

TU Dresden – (e.g. Hydrogen generation, energy storage systems, electromobility)

Dresden, Germany

Master of Science Degree in Electrical Engineering

April 2011 – August 2013

HTW Dresden - University of Applied Sciences

Dresden, Germany

Guest Student

September 2011 – August 2013

TU Dresden – (e.g. lectures: transformer design, electrical machine dynamics, grids)

Dresden, Germany

Bachelor of Engineering Degree in Renewable Energy (Focus: Mechanical)

October 2007 – February 2011

HS Nordhausen - University of Applied Sciences

Nordhausen, Germany

trainings and conferences (selected from over 30)

Gas-Insulated Substations conference

February 2020

EUCI

Anaheim, USA, CA

Substation 2019 conference

November 2019

cigre

Hobart, Australia

All-Energy Australia 2019 conference

October 2019

Melbourne, Australia

Smart Grids and Energy-storage solutions (presenter)

May 2019

AHK German Chamber of Commerce – AHK Slovakia

Stuttgart, Germany

Trans technological energy solutions for industrial sector in Australia and New Zealand (presenter)

October 2018

AHK German Chamber of Commerce – AHK New Zealand / AHK Australia

Auckland, New Zealand

2nd Germany California Energy Storage Symposium (presenter)

February 2018

AHK German Chamber of Commerce – AHK USA

San Francisco, USA

language skills

German (native) | English (IELTS overall band: 5.0) | Russian (elementary)

references available on request