

# Curriculum Vitae

## Personal Details:

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Name: Tobias Kamp  
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Marital status: *on demand*  
Nationality: German



## I. PROFESSIONAL BACKGROUND

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- 2018/04 **Self-employed engineer (Technical expert & inventor in an advisory role)**  
(NAP – Grid Connection Planning for renewable energies & substations, Arnstadt)
- 2018/03 – 2017/03 **Work and Travel, Canada**  
(e.g. HydroOne, Toronto)
- 2017/02 – 2016/10 **Project manager for substations and switchgears**  
(Thuringer Energienetze, Erfurt), End because of international work experience
- 2016/07 – 2016/01 **Work and Travel, Australia**  
(e.g. Aecom, Melbourne)
- 2015/12 – 2013/10 **Electrical engineer in planning and implementation (Wind farm construction)**  
(PNE Wind, Cuxhaven), Professional end due to time out
- 2013/08 – 2011/05 **Project engineer electrical engineering (solar and wind farm construction)**  
(Boreas Energy, Dresden), Professional end with graduation
- 2005/08 – 2002/08 **Vocational training for cartographer**  
(State Geological Survey North Rhine-Westphalia, Krefeld)

## II. ACADEMIC-SCIENTIFIC CAREER

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- 2020/02 – 2019/12 **Master courses electrical engineering**  
(*Uni Stuttgart, TU Darmstadt, TU Berlin* as a listener / further education), Lectures.: HV-Overhead Lines (Prof. Papailiou), Gas-insulated switchgears (Dr. Kosse, SIEMENS), Switch behaviour in the electrical grid (Prof. Schramm, SIEMENS)
- 2019/07 – 2019/04 **Master course electrical engineering**  
(*Uni Stuttgart* as a guest listener), Lectures.: Electrical interconnected systems (TSO: TransnetBW lecture), Electrical grid dynamics, Smart Grids, Photovoltaics I+III, Profitability calculation of power plants (EnBW lecture)
- 2019/01 – 2018/04 **Diploma course electrical engineering**  
(*TU Dresden* as a guest listener), Lectures.: Hydrogen generation, Mobility concepts, Projects in the 380 kV transmission utility network (TSO: 50Hertz)
- 2013/08 – 2011/09 **Master's degree electrical degree, specialization in electrical energy systems**  
(*HTW Dresden*) → Thesis: *Creation of a HV wind farm grid protection concept in energy recovery case*

- 2013/08 – 2011/09 **Diploma course electrical engineering, specialization in electrical energy systems** (*TU Dresden as a guest listener*), Lectures.: *Network operation, Transformers, 380 kV Electrical substation design and construction, Reliability in electrical networks*
- 2011/02 – 2007/09 **Bachelor course Renewable energies, specialization in mechanical engineering** (*University of Applied Sciences, Nordhausen*) → *Thesis: Programming of a Real-Time system with EtherCAT*

### III. FURTHER EDUCATION / CONFERENCES *(in purple colour: international)*

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- 2020/02 – 2020/02 **Gas Insulated Substations** (*EUCI, Anaheim/USA*)
- 2019/11 – 2019/11 **Western Australia Clean Energy Forum 2019** (*Clean Energy Council, Perth*)
- 2019/11 – 2019/11 **Substations 2019** (*CIGRE Australia, Hobart*)
- 2019/10 – 2019/10 **All-Energy Australia 2019** (*Australian Energy Council, Melbourne*)
- 2019/05 – 2019/05 **Smart Grids and Energy-storage solutions** (AHK Slowakei, *as presenter*, Stuttgart / Germany)
- 2018/11 – 2018/11 **3<sup>rd</sup> . Storage-Workshop “Integrated storage systems”** (*Prof. Bocklisch et. al, TU Dresden*)
- 2018/11 – 2018/11 **The 3-ANPC-Converter (characteristics and applications)** (*Prof. Bernet, TU Dresden*)
- 2018/10 – 2018/10 **Trans technological energy solutions for industrial sector in Australia and New Zealand** (AHK New Zealand, *as presenter*, Auckland)
- 2018/09 – 2018/09 **New regulations and knowledge about power quality** (*VDE Dresden, Symposium*)
- 2018/06 – 2018/06 **Intersolar 2018 with Energy Storage Conference** (*Messegelände München, München*)
- 2018/02 – 2018/02 **2<sup>nd</sup> Germany California Energy Storage Symposium** (AHK USA, *as presenter*, San Francisco)
- 2017/11 – 2017/11 **Grid integration of renewable energies in Alberta & Saskatchewan with focus on energy storage and Smart Grid technologies** (AHK Canada, *as presenter*, Calgary)
- 2016/12 – 2016/12 **Project management** (*Aus- und Fortbildungszentrum TEN, Gehlberg*)
- 2015/10 – 2015/10 **Nordex – Wind Turbines (construction, grid connection, commissioning)** (*Nordex, Hamburg*)
- 2015/09 – 2015/09 **PNE – Project development in offshore wind farms (Inhouse-course)** (*Cuxhaven, Mr Müller, Ms Droske*)

- 2015/09 – 2015/09 **PNE – Turbulence in wind turbines**  
(Cuxhaven, Mr Goppelt)
- 2015/09 – 2015/09 **Workshop Certification and electrical measurements for wind farms**  
(FGH, Hamburg), Dr. Meuser
- 2015/07 – 2015/07 **Optimization of distribution grids with PowerFactory**  
(DlG SILENT, Gomaringen), Dr. Yerima
- 2015/03 – 2015/03 **Electrical systems and grid connection with wind turbines**  
(VDI, Berlin), presenter: Prof. Heier, Kassel
- 2015/04 – 2015/04 **Grid connection from wind and solar farms – successfully to the certificate**  
(DNV GL, Hamburg), Mr Hinzer
- 2015/03– 2015/03 **as presenter: Startup – experiences as project developer for wind farms (FGH, Ladenburg)**
- 2015/01 – 2015/01 **Workshop Electrical certification for wind farms**  
(M.O.E., Itzehoe), Dr. Scheben
- 2014/11 – 2014/11 **Inhouse Workshop Grid connection planning with PowerFactory**  
(DlG SILENT, Husum), Mr Weigel
- 2014/07 – 2014/07 **MV-switching and authorization course for electrical power plants**  
(BFE, Oldenburg), Mr Barth
- 2014/05 – 2014/05 **Power-flow and short-circuit calculation with PowerFactory**  
(DlG SILENT, Gomaringen), Ms Seeger
- 2013/03 – 2013/04 **Recognize your own leader**  
(HTW Dresden), Ms Nerbe
- 2013/04 – 2013/04 **Communication in everyday work**  
(HTW Dresden), Ms Nirmschowski
- 2013/03 – 2013/03 **Basics Grids and grid connection – technologies and law**  
(BWE, Berlin)
- 2013/04 – 2013/04 **Project management**  
(HTW Dresden) Ms Kindler
- 2013/04 – 2013/04 **Rhetoric**  
(HTW Dresden), Dr. Schmittberger
- 2013/04 – 2013/04 **Requirements on reactive power exchange between distribution and transmission grids**  
(DNV GL), Dr. Froehner
- 2012/11 – 2012/11 **Creation of certificates according to German guidelines for grid connection**  
(DlG SILENT, Gomaringen), Mr Weise
- 2012/11 – 2012/11 **Grid protection with PowerFactory**  
(DlG SILENT, Gomaringen), Herr Castillo
- 2012/09 – 2012/09 **Solarvalley Summer School for Photovoltaics**  
(MLU Halle-Wittenberg), Prof. Scheer

#### **IV. SCHOOL CAREER / MILITARY:**

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03/2007 - 08/2007	<b>Military service as armed personnel carriers</b> (Werratal barracks, Bad Salzungen)
08/2005 - 07/2006	<b>University entrance qualification</b> (BBS III J.Chr. von Dreyhaupt, Halle/S.

#### **V. OTHER KNOWLEDGE AND EXPERIENCE:**

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Language skills:	<b>English:</b> good, (B2-level) <b>Russian / Portuguese:</b> beginner level (A1)
IT expert-skills:	Graphic: Illustrator Grid calculation: PowerFactory
IT professional-skills:	MS-Office ('18): Excel, Word, MS Project, Konstruktion: AutoCAD, MicroStation Programming: LabVIEW
IT basics:	Grid calculation: Elektra, Neplan General calculation: Matlab, Mathcad, Simplorer
In addition:	Driver license for cars, G41, MS-switching authorization

#### **INVENTION (+HOBBY):**

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Knowledge-based and topic overarching expert system based on artificial intelligence for **cost optimization** of the energy transition from more than 30 areas of expertise (after 15 years international development)