

Lothar Brixius

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Topasweg 10, 70174 Stuttgart, Germany

Education

Carl Friedrich von Weizsäcker Gymnasium, Ratingen

01.06.2016 | **Abitur (German Highschool Diploma)**

RWTH Aachen

01.10.2016 - 01.10.2019 | **B.Sc. Industrial Engineering**

TU Munich (de facto), degree formally obtained at RWTH Aachen

01.10.2019 – 14.10.2022 | **M.Sc. Electrical Engineering**

UP Valencia

01.02.2022 – 31.07.2022 | **Erasmus Semester**

TU Munich

2019 – 2022 | **Additional Courses from B.Sc. Mathematics** Around 70 ECTS: Linear Algebra 1 & 2, Analysis 1, 2 & 3, Geometry, Seminars on Goebner Bases and ZFC axiom system

Working Experience

Internship 01.04.2019-21.06.2019

BMW | Industrial Plant Milbertshofen

Electrical / Electronic Parts in the Car Interior

Scientific Staff 15.01.2023-01.06.2023

Fraunhofer Society | Institute for Cognitive Systems (IKS)

Software Architecture, Safe Adaptation Behaviour of AI Systems

Scientific Staff 01.08.2023-01.08.2024

TU Vienna | Institute Energy Systems and Electrical Drives (ESEA), Research Group for Energy Systems and Networks (NES)

Analysis of Frequency Stability on a Grid level

Engineer for Grid Planning 01.10.2024-today

TransnetBW | Strategical Asset Management

Load-flow-based Analysis of HVDC projects in the context of the European TYNDP

Theses

Bachelor Thesis Summer 2019

RWTH | Institute for High Voltage Technology (IFHT), nowadays part of IAEW

Developing Impedance Models of Converters for Assessing the Harmonic Stability in the Frequency Domain (1.3)

Master Thesis Winter 2021

TUM | Heinz Nixdorf Chair for Medical Technology

Fluid Mechanical Aspects of Hemostasis (1.3)

Skills

- **Programming:** MATLAB/Simulink, Python
- **Languages:** English (C2, passing the Certificate of Proficiency in English (CPE) with Grade B in 2019), German (native), Spanish (B1)
- **Software:** COMSOL, GitHub, PowerFactory
- **Leadership and Organization:** Project Lead for two radio plays of the AcTUM student drama club, organizing Events as part of the Erasmus Student Network (ESN), Former board member of the local chapter (OV) Olympiadorf of the Social Democratic Party of Germany (SPD)
- **Intercultural Exchange:** Erasmus semester in Valencia (Spain) 2022, working with ESN, representing my OV in the Munich Group for Migration and Diversity of SPD, participating in buddy programs for incoming exchange students in Aachen, Munich and Vienna

Hobbies

- Playing Piano
- Swimming
- Tennis
- Chess / Go