

Projects and skills in short form

- 1986 – 1988: Design engineer for Körber AG, division Blohm, in Hamburg
- 1987 – 1992: Evening study at the University of Applied Sciences Hamburg
Degree: Diplom-Ingenieur
- 1988 – 1995: Design engineer, head of research + development for ZAE in Hamburg
1996: Software developer for idem GmbH in Hamburg
- 1997 – 2000: Head of gearbox design office for Getriebebau NORD in Bargteheide
- 2000 – 2002: Technical director for GEFEG in Hannover
- 2002 – 2005: Development engineer, deputy head of Systemtechnik, project leader gearboxes for Nordex Energy GmbH in Norderstedt
- 2005 – 2008: Head of R&D for GKN Walterscheid, Sohland
- 2008 – 2009: Technical director for LWN Lufttechnik GmbH in Wilsdruff
- since 2020: **Freelancer, mechanical engineer**
- 01/10 – 06/10: “Technical Resident Consultant” (TRC) for Adam Opel GmbH division “Power Train”; technical responsibility for gearbox shafts, gearbox bearings and gearbox toothings.
- 07/10 – 01/12: Project leader for Brevini Wind Deutschland GmbH; development of two main gearboxes with megawatt power for wind turbines.
- 03/12 – 09/15: Object responsibility of development, production and manufacturing of a vacuum main chamber incl. vibration isolators and media supply for ZEISS SMT GmbH in Oberkochen.
- 05/15 – 11/15: Concept study of drive trains for a confidential customer
- 03/16 – 01/17: Development engineer for NGC Europe GmbH, development of main gearboxes for wind turbines for the chinese gearbox manufacturer NGC, close together with the development team in the headquarters in Nanjing.
- 01/17 – 12/18: Development engineer for Schaeffler AG in Herzogenaurach. Development of planetary gear stages of automotive e-axles with RIKOR, DZP, MASTA, KissSoft und internal software of Schaeffler. Development of basics of gearbox calculations.
- 02/19 – 06/19: Valeo Siemens GmbH in Erlangen. Development of gearboxes, training of the development team in design, calculation and development of toothings.
- 07/19 – 04/23: Hycet Transmission Technology Hebei Co., Ltd, a company of Great Wall Motors Group: expert for gear wheel calculation and software developer for programs for gear calculation and optimization.
- 06/23 – 12/23: Technical project manager for Rotax GmbH & Co KG in Austria. Development, validation and coordination of a dual clutch transmission.
- since 01/24: For Alcon, WaveLight GmbH, Technical Writer. Creation of operating instructions for an optical device for surgical guidance in eye surgery.
- since 10/24: Design and optimization of gearing for planetary gears as a standard series for torques up to 1 mega Nm for Nidec DESCH Antriebstechnik. The focus is on minimum part diversity, maximum torque / volume and minimum tool diversity.

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Development: Many years of experience, some in management positions; design and development of tools, machine tools, gearboxes from 50 watts to 6 megawatts, industrial fans up to 750 kW, drive trains for wind turbines, 9-speed automatic gearboxes and 7-speed dual-clutch gearboxes for cars.

Value analyses: Significant cost optimization of several products by adapting design, purchasing, production and assembly; savings through successful outsourcing to India with consistent quality.

Production: Management of gearbox and small electric motor production, development of gearbox production, management and restructuring of industrial fan production, development of mechanical production for fans.

Project leading: Planning and management of complex projects in design and development as well as in value analysis. Use of MS Project and Gantt Project.

Wind energy: Development responsibility for the drive train; two new gearbox concepts successfully implemented; damage analyses on main gearboxes for wind turbines, support for the legal department in technical matters; concept study for interfaces on drive trains in wind turbines.

Vehicle transmissions: Experience in the calculation and design of planetary gear sets, gears, splined shafts and rolling bearings for all types of vehicles, particularly in the field of electric drives.

Office

Microsoft Office: very good

Libre Office: very good

SAP (anwenden): good

Calculation of gearboxes

ST-Plus: very good

RIKOR: good

DZP: good

KissSoft: very good

MASTA: good

CAD & Graphic

AutoCAD: very good

Medusa 2D & 3D: very good

LibreCAD: very good

Inventor: very good

FreeCad: very good

ProE / NX10: good

Corel Technical Designer: very good

Corel Draw: very good

Inkscape: very good

Operating systems

Windows: very good

Linux: very good

Unix: good

Programming

Pascal: very good

Object-Pascal: very good

Delphi: good

Fortran: good

Visual Basic: good

Java: knowledge

Languages

German: native speaker

English: fluent

Chinese: beginner