

# 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 2010: 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-axes 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., China, Ltd, a company of Great Wall Motors Group: expert for gear wheel calculation and developer of software for calculation and optimisation of gear wheels.

06/23 - 12/23 Project leader for Rotax GmbH & Co KG. in Austria. Technical project manager for Development, validation and coordination of a dual clutch transmission.

since 01/24: WaveLight GmbH, a company of the Alcon-Groupe: Technical Writer, creating of the manual for a UNITY GPS, a machine for the eye surgery.

Development: Many years of experience, partly in managerial position; design and development of tools, machine tool, gearbox from 50 watt up to 6 megawatt, industrial fans up to 750 kW, drive trains of wind turbines, 9-speed automatic transmissions and 7-speed dual-clutch transmissions for passenger cars.

Value analyses: Significant cost optimization of multiple products through adaptation of design, purchasing, production and assembly; savings through successful outsourcing to India with constant quality.

Production: Head of gearbox and small e-motor manufacturing, management and restructuring of a production of industrial fans, implementation of mechanical manufacturing for fans.

Project leader: Management of complex projects in R&D as well in value analysis. Using of MS-Project and GanttProject.

Wind turbines: Responsibility of development for drive trains; two new concepts of gearboxes successfully realized; damage analysis of main gearboxes in wind turbines, support of the legal department in technical matters; concept study for interfaces to drive trains in wind turbines.

Vehicle gearbox: Experience in the calculation and design of planetary wheel sets, gear wheels, toothed shafts and rolling bearings of all vehicle types, especially in the field of electric drives.

MS-Word: excellent

Visual Basic: well

MS-Excel: excellent

Inventor: excellent

MS-Project: excellent

ProE: well

MS-Visio: well

NX10: well

MS-Powerpoint: excellent

Medusa: excellent

Free-Pascal / Delphi: excellent

Corel Technical Designer: excellent

ObjectPascal: excellent

Corel Website Creator: excellent

Java: sufficient

SAP: well

Fortran: well

ST-Plus: excellent

RIKOR: excellent

KissSoft: excellent

DZP: excellent

MASTA: well