

› RESEARCH & DEVELOPMENT

SYSTEMS ENGINEERING

- › Integration of optics, mechanics, hard- and software
- › Project management
- › Development and assembling of feasibility, prototypes and transition to serial production, including documentation and approval according to specific regulatory affairs

OPTIC DESIGN

- › Conception, development and optimization of optoelectronic systems
- › Optic design with ZEMAX

MECHANICAL DESIGN

- › Mechanical design of fine mechanical assemblies and devices (SolidWorks), incl. Product-Life-Cycle- and Product-Date-Management
- › Structure analysis using FEM
- › Thermo mechanical simulation with calculation of heat transfers, convection and thermal radiation

ELEKTRONIKS

- › Circuit and circuit board design (Altium Designer), redesign and optimization of existing electronical assemblies
- › Premeasurement of EMC during development and analysis using lab equipment like artificial mains network, spectrum analyzer, antennas and near field probes
- › ESD-testing

SOFTWARE

- › Development of application software (Visual Studio)
- › Data base development (MySql and MSSql)
- › Programmable logic controller (PLC, like Beckhoff or TwinCAT)
- › Microcontroller development (Atmel Studio)
- › Embedded Linux (Qt, gnu-tool chain)
- › Programming of digital signal processors (DSP)

