

Why with Helbling

We give you immediate access to a highly qualified and multidisciplinary team that supports your product development.

You reap the benefit of our extensive expertise in developing industrial and medical products. You can depend on a unique partner capable of managing all technical aspects of your product development with the highest efficiency.

We ensure that your product is developed and documented in line with the latest industrial and medical standards. We transfer full control and ownership of the design and intellectual property developed during the collaboration.

Helbling – your exclusive, independent contract engineering partner for industrial and medical product development.



helbling

Innovation is our driving force

Founded in 1963, Helbling Technik currently has more than 390 employees in Switzerland, Germany, USA and China.

Helbling Technik is part of the Helbling Group and functions as a long-term partner in its customers innovation network, under the motto "Innovation, together we do it". The company's engineers, IT experts and physicists use high-performance engineering tools, the latest infrastructure including laboratories, as well as high-quality professional approaches to generate new ideas, implement state-of-the-art technologies and develop successful new products.

Contact

Helbling Technik Bern AG

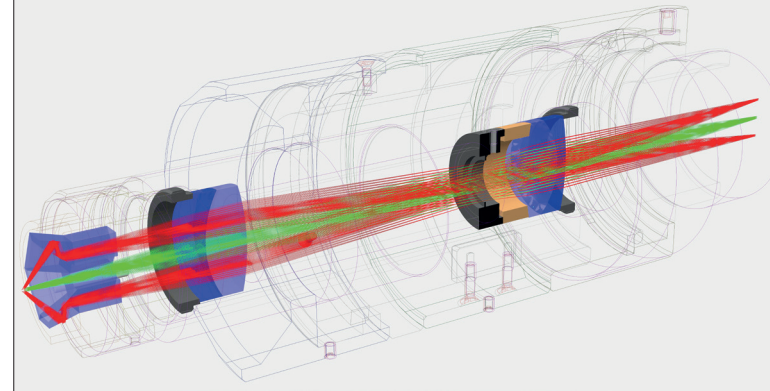
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helbling



Optics

Do you need an application specific optical system? Do you want to integrate cutting edge optical technologies?

If there is no off-the-shelf solution available, then contact us today. Helbling has the answer!

Helbling Technik

Innovation, together we do it

A broad spectrum of competencies and expertises

Development of high-tech products integrating optical functionalities

Operating in a highly interdisciplinary environment, our team of engineers and scientists creates and designs complete optical devices and systems.

Our competencies include:

- Imaging- and illumination optics
- Refractive- and diffractive optics
- Sequential and non-sequential raytracing
- Optical tolerance analysis
- Image processing
- Data science
- Optoelectronics design
- Optomechanics design
- Plastic- and micro-optics
- System integration
- Experimental design verification
- Design for manufacturing and assembly

Leverage our specific skills and technical experience to find the best solution for your product!



A team combining creativity, technology and experience

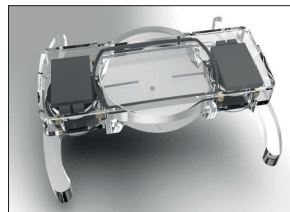
We offer optical systems development for a wide range of applications, including:

Medical and ophthalmic equipment & devices

- Optical coherence tomography
- Biometry
- Fundus imaging
- Autorefraction
- Ocular implants
- Contact lenses
- Spectacle lenses (single vision and progressive)
- Spectroscopy
- Endoscopy
- Laser therapy

Consumer and industrial equipment & devices

- Near-eye displays and AR devices
- Head-up displays
- Imaging systems
- LED illumination
- Gas sensing
- Quality inspection

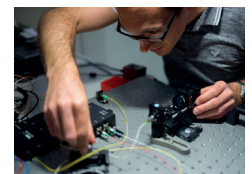
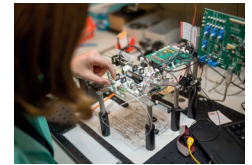
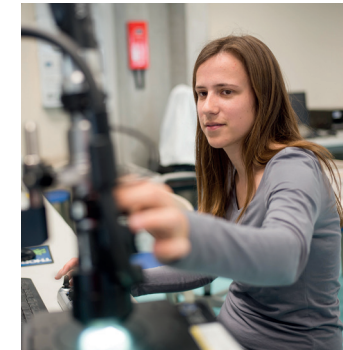


Electro-active intra-ocular lens (IOL)



Adjustable reading glasses

A professional infrastructure and laboratories



Comprehensive set of engineering and scientific software packages for:

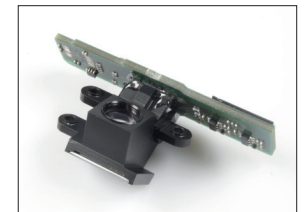
- Optical design
- Mechanical / micro-mechanical design
- Electronics (hardware/embedded software) design
- Fluidics design
- Multiphysics simulation

Fully equipped laboratories for:

- Mechanical, electrical, optical, acoustic and system testing
- Metrology
- Modeling / prototype adjustment



Handheld device for skin cancer diagnosis



Autofocus module for DSLR camera