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 long term independent contract engineering partner for medical device development.

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Innovation is our driving force

Founded in 1963, Helbling Technik currently has more than 480 employees in Switzerland, Germany, Poland, the 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.

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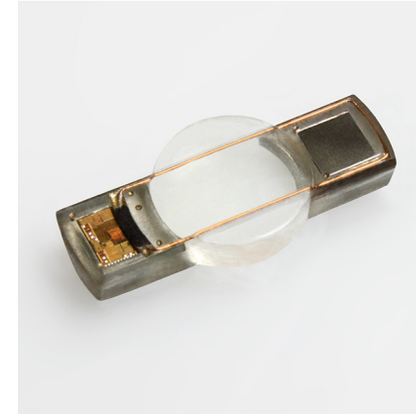
Sensors & Medical Electronics

Are you planning to challenge the status quo for sensors or medical electronics? Do you want to translate a creative idea into an innovative product?

Contact us today, Helbling is your trusted partner!



Helbling Technik
Innovation, together we do it

A broad spectrum of competences and expertises

Development of high-tech, highly integrated and extremely miniaturized sensors and medical devices

Our interdisciplinary team of engineers and scientists develop products integrating mechanics, microtechnologies, electronics, optics, and embedded software.

Our competences

- Systems engineering
- Analog, digital and physical electronics
- Advanced sensors and vision systems
- Wireless power and data links
- Bio-electronic interfaces
- Algorithms and embedded software

Our development activities

- Transfer of technologies from research to commercial products
- User-centric product development
- Technical support during clinical studies and industrialization

Spatially resolved brain oxygen supply measurement

Electronic spectacles for prevention of myopia progression

A team combining creativity, technology and experience

We are experienced in designing solutions that incorporate complex functionalities without compromising security or ease of use. Some reference projects include:

Medical devices

- Long term active eye implant
- Nerve, muscle and neurostimulators
- Hearing aids
- Blood gas sensors and blood pressure sensors
- Electronic spectacles and electronic contact lens

Industrial and consumer applications

- Quality control for pharmaceutical production line
- Gas analyzer based on laser spectroscopy
- Optical displacement measurement sensor
- Miniaturized eyewear-mountable camera
- Signal processing for ultrasound communication
- Capacitively coupled RFID system

In-line quality control for pharmaceutical industry

The world's smallest eyewear-mountable camera

A professional infrastructure and laboratories

Comprehensive set of engineering and scientific software packages for:

- Mechanical / Micro-mechanical design
- Electronics design
- (Embedded) software design
- Optics design
- Fluidics design
- Multiphysics simulation

Fully equipped laboratories for:

- Mechanical, electrical, optical, fluidic and acoustic testing
- Metrology and environmental testing
- 3D-printing and prototype adjustment
- Usability engineering
- EMC & ESD testing