

TOPOSENS

VISION FOR TECHNOLOGY

**Toposens** develops  
real time **3D sensor systems**

“Our vision is to revolutionize human interaction with technology”

# The Idea Turned into a Company



## The Challenge



## The Solution



## The Company



The idea of the toy fish turned into a 3D-sensor company

# The Team Behind the Amazing Technology



## Founders



**Tobias Bahnemann**  
Managing Director

- M. Sc. Business Admin.
- Finance, Sales & Marketing



**Alexander Rudoy**  
Managing Director

- M. Eng. Mechatronics
- Embedded Systems Expert



**Rinaldo Persichini**  
Software Development

- M. Eng. Mechatronics
- Expert in 3D Visualization



## Employees



**Barbara Brauner**  
Business Development

- M. Sc. Finance and Accounting



**Marcel Geisler**  
Digital Signal Processing

- B. Sc. Electrical Engineering at KIT

## 3D Lasers



## 3D Cameras



## Problems:

- High Price
- Many Errors
- Low Mobility

▶ Market longs for a cheap and mobile 3D sensor system!

# Toposens 3D Ultrasound Sensor



**3D Ultrasound =  
Hardware Assembly + Powerful Algorithms**



**Robust**



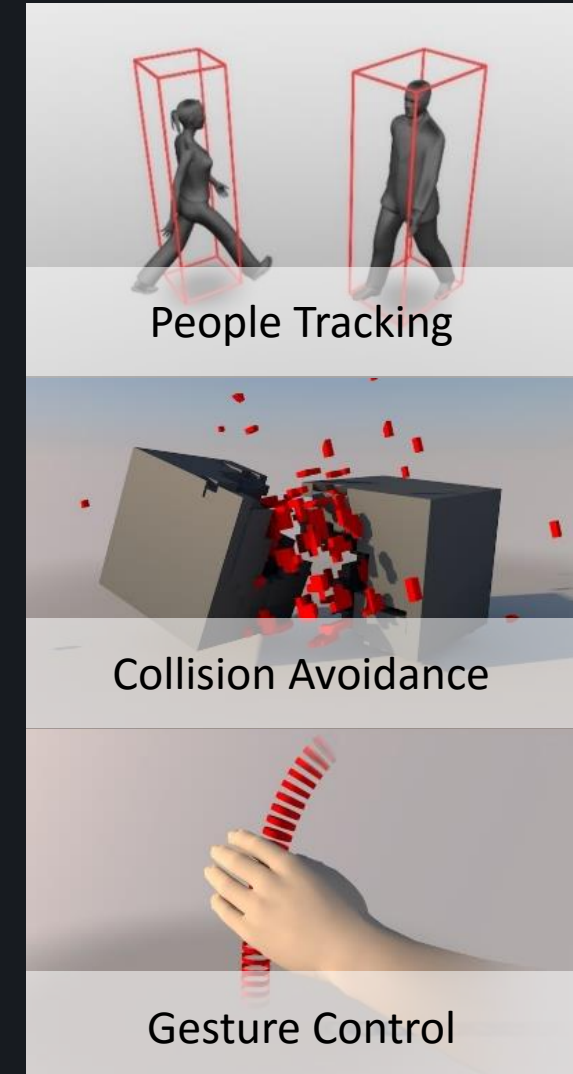
**Highly Mobile**



**Privacy  
Protection**



**Competitive  
Price**





Compared to other systems, our sensor is low cost, energy efficient, less sensitive to external influences and smaller.

● **Toposens 3D-sensor**  
Based on ultrasound. Suitable for applications which need a robust, fast and broad 3D object recognition.

○ **Consumer 3D-sensors**  
Almost exclusively on optical basis. For applications which need a simple 3D structure-reconstruction or 3D tracking by device post processing.

E.g.: Kinect, Leap-Motion, Intel-Real-Sense, TOF-Cameras

● **Measurement 3D-sensors**  
Mostly optical systems. For highly accurate measurement and tracking applications. Heavy post processing is needed to reconstruct usable data.

E.g.: Lidar, Linescanner, Photogrammetry-systems

# What`s Possible?



Indoor Navigation



Home Entertainment



Autonomous Driving



Retail Analytics



Virtual Reality



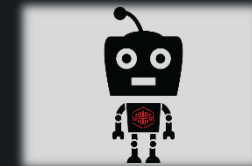
Drones



Logistics



In-Car Gesture Control



Robotics



IoT/  
Smart Home



Smart Spaces

Our sensor recognizes surroundings, detects motion and can be used for gesture control!





TOPOSENS

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