HoLoLight

Mixed Reality
Solutions for Industry 4.0

Holo-Light is a big family driven by passion that creates the foundation to nourish a **groundbreaking technology** and push it forward.

Florian Haspinger
CEO

Holo-Light is a journey of exploration where **we reinvent** how we think about computing. Many rules in AR are not written yet, and Holo-Light is right at the forefront writing them.

Alexander Werlberger
CTO

Holo-Light merges the best parts of the digital world with our real environment and enables individuals and companies to empower their life at work and at home.

Luis Bollinger
CMO

Holo-Light means bringing a **new way of communicating**, learning, and interacting to the industrial sector and at some point also to everyone in the world.

Susanne Haspinger
COO

Looking for Innovation

About Us

Holo-Light is the leading software development company for industrial Mixed Reality solutions.

Our software and hardware solutions enable companies to optimize processes and generate competitive advantages using the benefits of Mixed Reality. We create practical and professional software applications for leading industry players in areas like engineering, manufacturing, design, services, utilities, and training. Our innovative, fast, and simple solutions have already been adopted by some of the top 500 industrial, technological, and communications companies around the globe. Quality comes from the heart, and everyone working at Holo-Light gives it their all. Our employee-focused culture creates an environment of creativity and motivation which leads to strong growth.

Holo-Light was founded in 2015 and is a rapidly-growing company with more than 30 employees. We have offices in Tyrol and Munich, and more to come

We create groundbreaking end-user software applications for industry 4.0
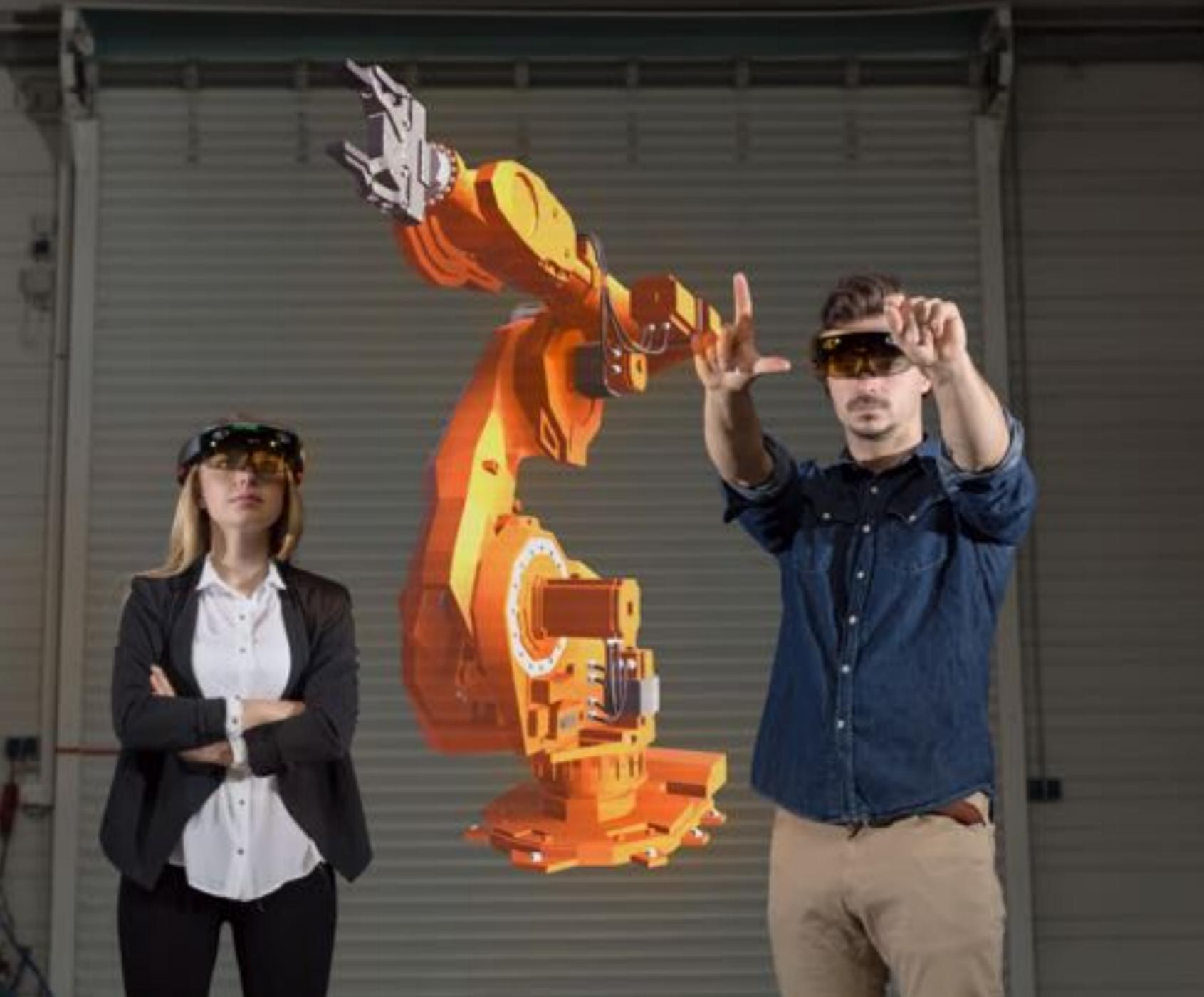
Holo-View

Fast and simple CAD visualization for Industry 4.0

Transform your CAD models into fully 3D holograms with a few simple clicks and view, edit, or present them on any head-mounted display (HMD). Offering a variety of features and the possibility to share the experience with others, the application is a perfect tool for designers, engineers or sales people when it comes to decision making, maintaining machines, training people etc. Use the hierarchy tree to select individual elements of the object in order to view and manipulate the structure in detail. Holo-View enables the user to bring their CAD projects into a real world space via a simple drag and drop process.

Key Features

- Supported file formats: JT, FBX, (Asset bundle)

- Convertable file formats: STP, OBJ, CATIA V5IV6, Solid Works, Rhino etc.

- Interact with and manipulate your 3D objects via:
    - Cross section function
    - Scale/rotate/move
    - Highlight/hide assembly groups

- Multi-user function

- Upload high amounts of data

- Upload several files on your device

Products___09
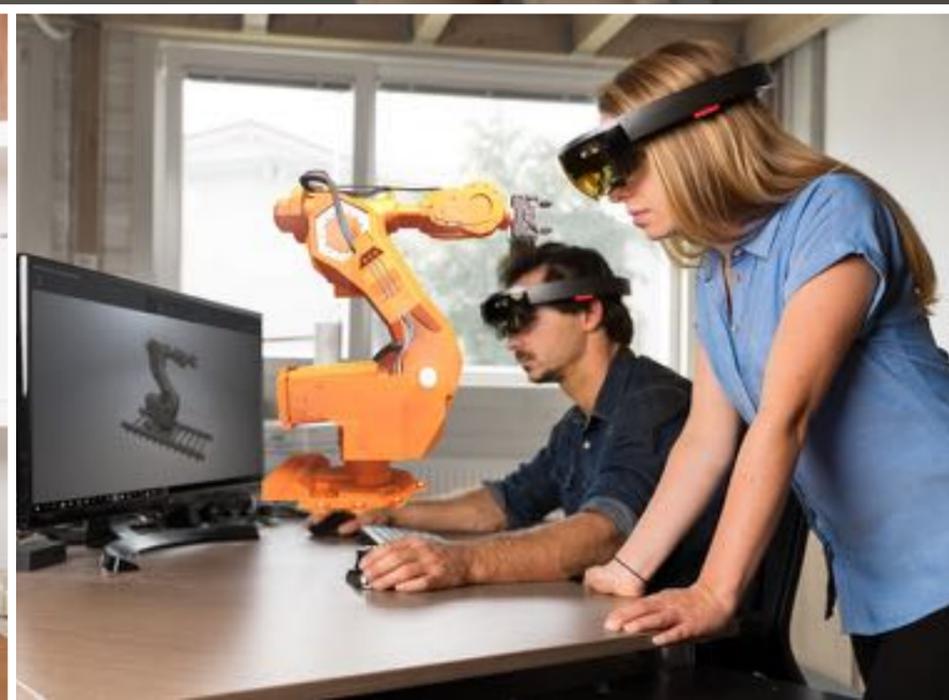
Holo-Simulate

Visualize your simulation data in 3D

Experience your simulation data in Mixed Reality. With Holo-Simulate, simulation files can be easily uploaded to your AR or VR device to view and analyze them in 3D. Use the gradient mode or select multiple time steps of your simulation to get full insight into possible weak spots. Select from a variety of features and modes to test your simulations.

Key Features

· Multiple time step presentation

· Multi-user function

· Gradient mode

· Vector presentation

· File Format VTK

Holo-Expo

Tomorrow's exhibition today

Do you need a highlight for your next trade fair? Are you struggling with how to effectively present your products? The Holo-Expo service allows you to create the exhibition of the future for your upcoming trade shows and other events. Design your own storyboard and determine the level of immersion, the position of holograms, and the interaction possibilities you would like to offer to your visitors.

Key Features

- Guided multi-user experience

- Flexible & modular exhibit augmentation (text panels, videos, 3D data, animations, etc.)

- Configurable positioning relative to exhibition displays and booth

- Easily adaptable content for use at multiple shows and trade fairs

Products ___13

Holo-Stylus
Your XR input device

The market for head-mounted displays is booming, and so is the demand. But with many companies developing different hardware and software approaches, the market has also become very fragmented. We forged ahead by creating an input device with incomparably precise tracking and incredible ease of use. Holo-Stylus is compatible with all HMDs and is considered the first universal tool for interacting with and creating content in Mixed and Augmented Reality.

Key Features

· Enables cross-platform usage (compatible with HMDs and other devices)

· Unique accuracy (incomparably precise tracking down to the millimeter)

· Natural & intuitive (ergonomic design, simplicity of use)

Products ___15

Festo Motion Terminal
Festo uses AR to maintain and operate machines.

Holo-Light created an interface between HoloLens and OPC-UA which enables the exchange of information between one machine and another. Festo's Motion Terminal VTEM, a complex pneumatic device, offers an excellent opportunity to explore the various possibilities when integrating machine data into a Mixed Reality interface. One possibility is to gather information on a 3D model and have all of its data visualized as an overlay on the real object. To figure out if something is wrong with the VTEM, the user can run a diagnostic which highlights potential problems on the machine and displays step by step instructions on how to properly fix errors.

PROBLEM

No immediate access to machine data or insufficient expertise to properly maintain machinery

SOLUTION

Interface which allows you to retrieve all necessary information in various ways

BENEFIT

Substantial reduction of default rate and assurance of continuous workflows
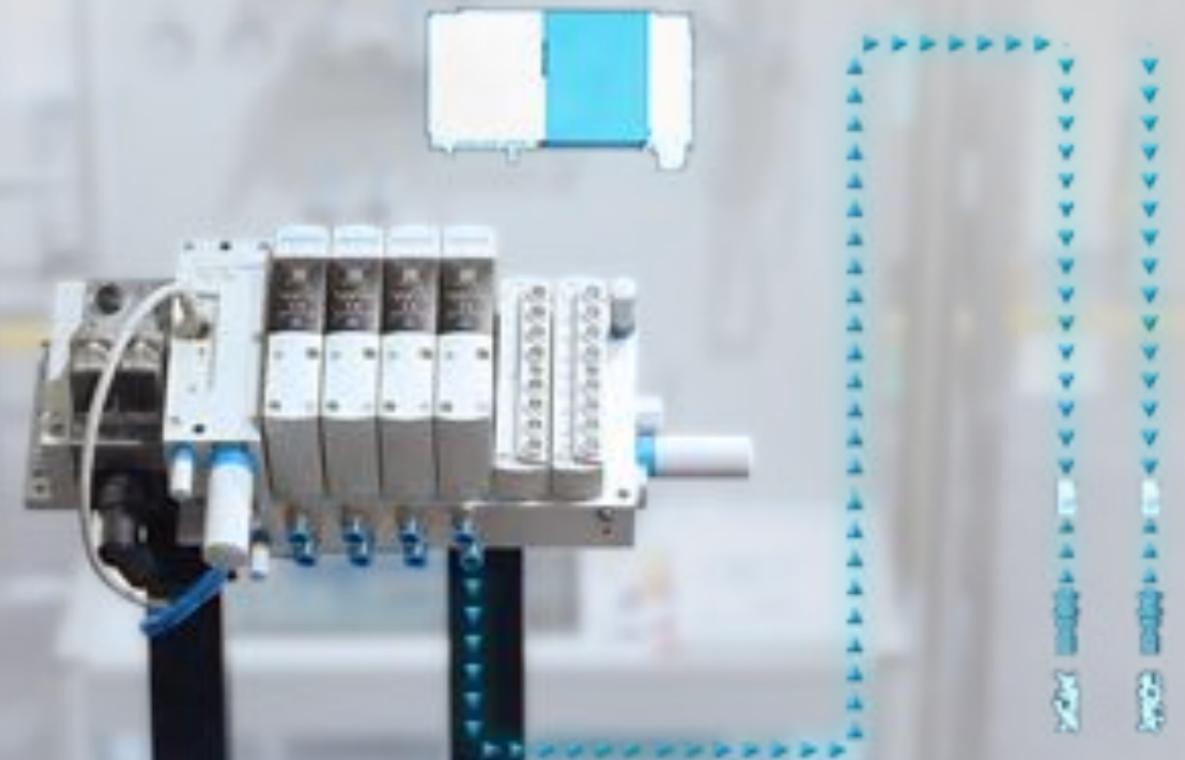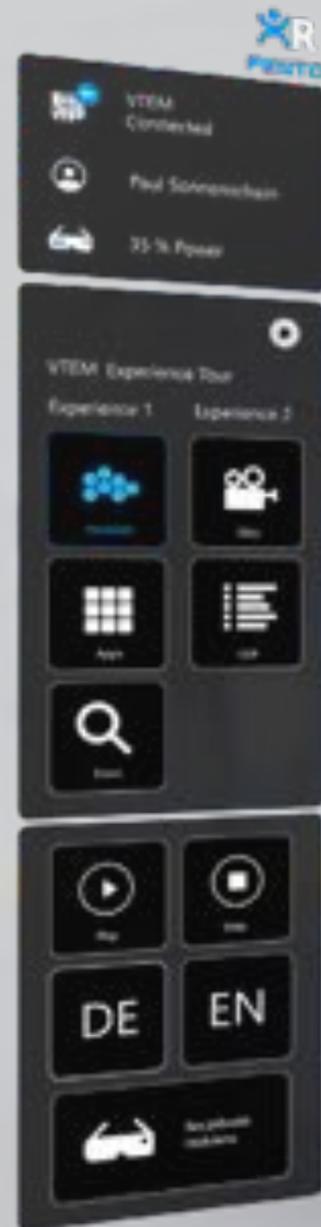
Festo Assembly Training

Festo implements Holographic Assembly Training with HoloLens.

With the Festo Assembly Training application new employees can easily understand and practice assembly processes. We created a digital workspace, in which a user can undergo training with the assistance of a Mixed Reality device. Through holographic and voice instructions, workers can learn every operating procedure and all necessary details step by step. This not only reduces cost and time expenditures, but also creates better trained employees.

In the fields of training and education, utilizing Augmented and Virtual Reality is proving to be one of the most powerful innovations in years. Mixed Reality holograms give learners more ways to truly interact with complex concepts, strengthening their abilities and heightening their engagement.

PROBLEM

High worker turnover in monotonous work processes, leading to a waste of resources in training new workers

SOLUTION

Holographic recreation of the workspace with step by step instructions and integrated training module

BENEFIT

Faster and intuitive training process for new workers, which requires less resources

Holo-Math
Explore new ways of learning

Mixed Reality is not only merging the real with the digital, it is also uniting learning types of every kind in shared educational experiences. The application Holo-Math produces live, immersive, scientific experiences for museums.

In collaboration with the French science museum Palais de la Découverte in Paris, and initiated by award-winning physicist and mathematician Cedric Villani, the project Holo-Math recently debuted to select members of the public. Visitors to the museum were able to experience Brownian motion, a key concept in physics, in a completely new and engaging way by putting on Microsoft's HoloLens and participating in a shared Mixed Reality universe. Holo-Math marks the beginning of a new era, in which learning as we used to know it finally transforms into experiencing.

PROBLEM

Knowledge transfer can be abstract and hard to understand when explained only theoretically

SOLUTION

Holo-Math visualizes physical processes with Mixed Reality, enabling users to experience them together in an engaging way

BENEFIT

Participants of the experience internalize the explanations in a visual, auditory, interactive, and captivating way, creating a memorable impression

BASF Training
Improve workflows with AR

The Water Resources Act defines very clear guidelines when it comes to work processes, which are meant to maintain or improve general water management. Therefore, in order to smoothly complete such an operation, the obligatory training processes are very complex and time-intensive. Holo-Light created a training case in collaboration with BASF which transfers knowledge in a playful manner. The application teaches workers the process of successfully exchanging the sealing washer of a flange model. The app guides the user through the tools and visually describes every step in pictures, videos, and animations to manage the exchange process on the real-life object. The application is able to provide both theoretical and practical training to ensure optimal results.

PROBLEM

Complex and extensive provisions which regulate certain workflows complicate simple training processes

SOLUTION

A Mixed Reality application supports the learning process

BENEFIT

Having a better overview and a playful, integrated way of testing a worker's knowledge improve the training quality and its results

Magna Quality Control

Automotive supplier Magna uses HoloLens for quality control.

The global automotive supplier Magna is working towards an intelligent factory of the future, the smart factory. One of its most beneficial use cases is guided quality control using Microsoft's HoloLens. Every year, its facility in Graz produces more than 150,000 cars, which undergo inspection for potential defects. A worker requires six minutes to check the car manually. To reduce the cycle time and facilitate more precise work, Magna and Holo-Light developed an AR software solution using the HoloLens. The app guides the worker through the inspection steps and highlights the necessary automotive parts. The user can immediately take pictures of possible errors if necessary. The documentation of the check-up is automatically recorded, so that the data can be perfectly utilized. A reduction of the cycle time by 1 minute per car saves 100 days of work in Graz alone. Furthermore, the AR process can be used to teach new employees the quality control process.

PROBLEM

Having no uniform way to check quality control issues costs the manufacturer unnecessary time and money

SOLUTION

Quality control app combines real-time information visualization, data entry, and documentation

BENEFIT

Cost-effectiveness, reduction of current cycle times, and simplification and standardization of the working process

They Trust Us

At Holo-Light, we place a high value on relationships.
Have a look at our amazing partners and customers.

"From the design, operation and maintenance of machine
up through the entire sales process, Mixed Reality
offers many exciting possibilities in terms of industrial
applications. Through their collaboration with Holo-Light,
Festo has paved the way for advancements in automations
and established themselves a true driver of innovation."

Rainer Ostermann
Country Manager Festo Austria

"Working with Holo-Light is always a fruitful experience!
Holo-Light offers cutting edge tailor made augmented
solutions that will transform the way we work, do
business and interact into a new dimension. On top of that
they have the coolest and most friendly employees you
ever met in the tech industry. Rock on Holo-Light!"

Nils Müller,
CEO and Founder of TRENDONE

"Being authorized as a Microsoft Mixed Reality Partner proves
that Holo-Light is on the fast track to building a Mixed Reality
ecosystem. I am looking forward to seeing many more high-class
innovations coming from their ambitious team."

Michael Zawrel
Senior Product Manager Mixed Reality & HoloLens
Microsoft Deutschland GmbH

Partners & Customers

MCI THE ENTREPRENEURIAL SCHOOL · FESTO · BAYER · TREND ONE · SIEMENS

hub:raum · aws · TechFounders · MAGNA

Fraunhofer IAO · planlicht · smartmobilevision · PORSCHE

PLUGANDPLAY · TÜVRheinland® · PHILIPS

VIKING® · 3Con TECHNOLOGY FOR YOU · DAQRI · BMW

3D Industri.es · Deutsche Telekom · Microsoft HoloLens

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We offer:

· Pilots

· Workshops

· Products

HoLoLight

SIMPLIFYING LIFE WITH MIXED REALITY