



Unlock the power of touch in your experiences

Who are we?

TOUCH AS A COMPLEMENT TO VISION AND HEARING

In 2016, Actronika was born with the collaboration of Vincent Hayward (CSO), Gilles Meyer (CEO), and Rafal Pijewski (CTO), with a dream of bringing touch to digital experiences.

With a passionate team behind them, over 40 projects and clients worldwide, and multiple patents in the field of haptics, Actronika is set to redefine how humans interact digitally.



Vincent Hayward



Gilles Meyer



Rafal Pijewski

What is haptics?

Haptics is the science of **touch**.

When we touch an object, vibrations are propagated in our body and allow us to understand the nature of the surface or object with which we interact.

Vibrotactile haptics consists in reproducing these vibrations created during an interaction so that our somatosensory system interprets them and leads to a coherent tactile illusion.



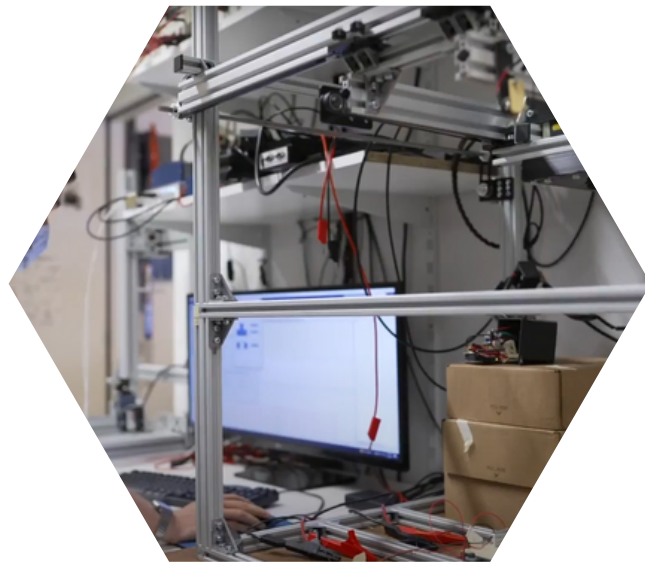
Actronika is specialized in vibrotactile haptics.

[Click to watch the video](#)



In this demonstration, the person who has the empty cup feels the same thing as the person who has the full cup. How? Thanks to haptic technology! We can recreate almost any sensation using vibrations.

Why Actronika

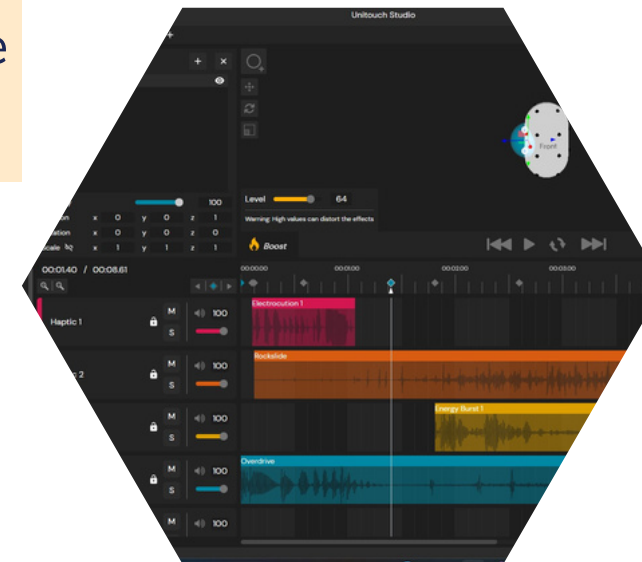
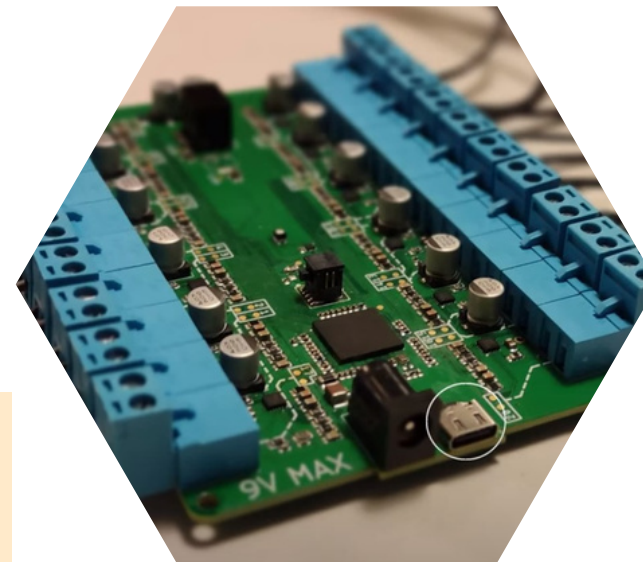


Research

We always continue to innovate to bring new haptic experiences to our customers to meet their needs and expectations.

We provide very innovative vibrotactile voice-coil motors capable of providing a wide variety of tactile sensations.

Hardware

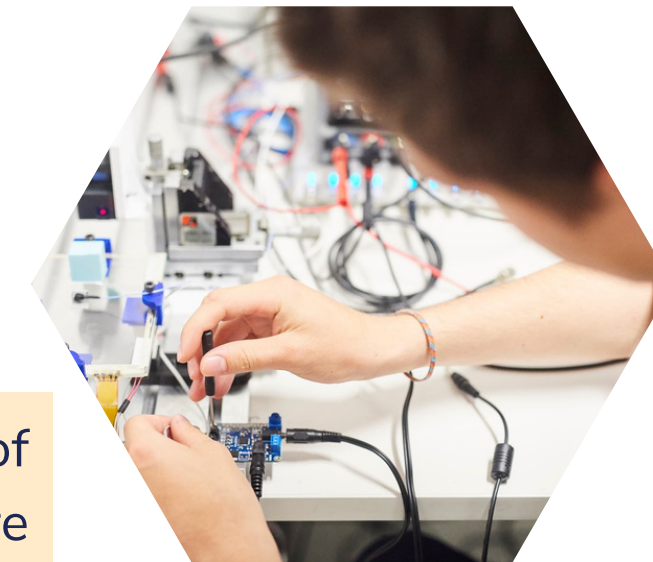


Software

We develop a collection of haptic sensations and software solutions to integrate the sense of touch in your product.

We develop a collection of haptic sensations and software solutions to integrate the sense of touch in your product.

Integration



Our Products

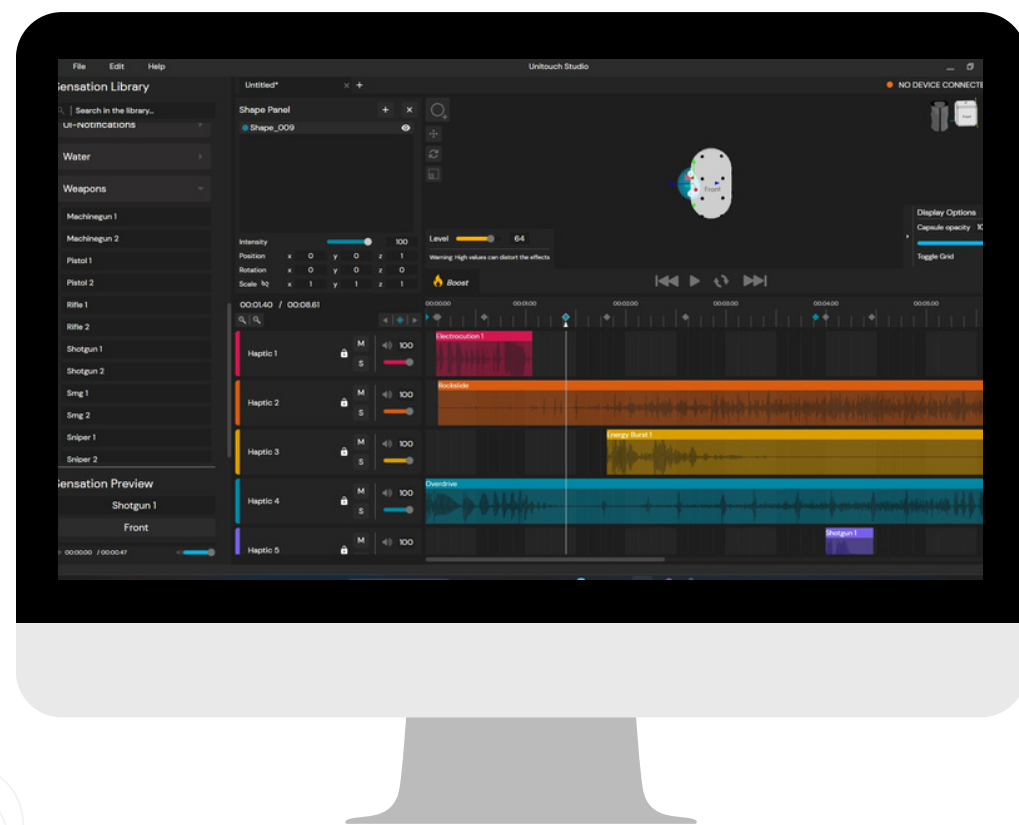
Software

Our haptic software ecosystem: **Unitouch Studio** makes developing realistic haptic feedback integration easy. A software solution that is specifically designed for compatibility with any vibrotactile actuator.

A collection of ready-to-use haptic effects

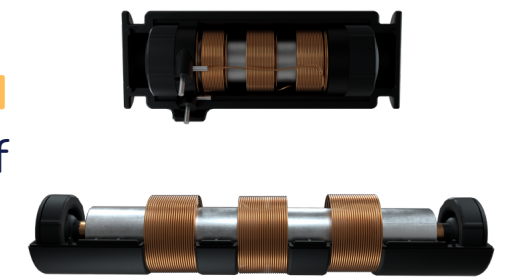
A tool to design your own high-definition haptic effects

A haptic engine to simplify haptic integration

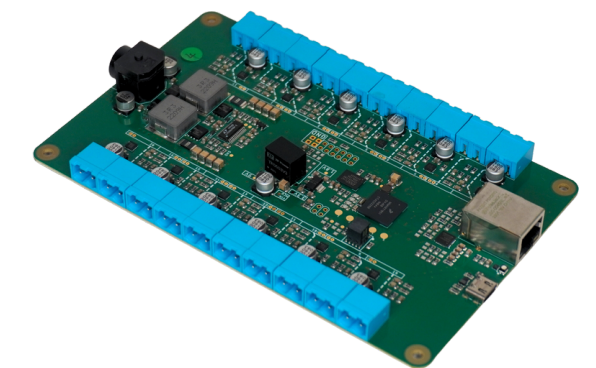


Hardware

We bring to the market innovative **voice-coil actuators** capable of recreating a wide variety of sensations.



HSD mk.II is a development kit able to stream 20 channels of high-definition haptics. With this **prototyping device**, users and companies can bring their **multi-sensory projects** to life by adapting the technology to their devices quickly.



The **Skinetic vest** allows you to feel every experience in virtual reality. Live in the digital world like never before!

It is equipped with 20 highly innovative voice-coil motors all over the torso, capable of providing various tactile sensations.



Use Cases

Formation

Offer your employees interactive VR training in a risk-free environment where they can gain experience simulating professional challenges with accurate tactile feedback.

An enhanced user interface

Enhance the user experience.

Communication

Communicate efficiently with haptic feedback.

Our Clients



Defense & Training

Improve the effectiveness of your military exercises to save more lives



Use Cases

Luxury & Retail

More than a simple purchase... A unique experience!



Unique shopping experience

Haptics in-store to provide a unique shopping experience. For example, integrating haptics in:

- Garments to feel immersed
- Furniture for relaxation and unique experiences
- Booth for product enhancement
- Floor for atmosphere creation
- Packaging for a personalized experience.

Connect emotionally with your customers.

- Engage your audience further, enhancing visual and audio experiences by adding tactile sensations.
- Take your experiences, advertisements, or events to another level of immersion.

Our Clients

LVMH BVLGARI

Use Cases

Automotive

Revolutionizing the
Driver Experience



Create a strong and genuine feeling of trust and understanding between your customers and your products.

Actronika provides many types of touch-based solutions to respond to new consumer expectations for a safer, more seamless, and more comfortable user experience.

Some automotive use cases include:

- Enhancing a steering wheel with haptic alerts for security-based feedback.
- Equipping an automobile seat with musical bass-enhancing actuators.
- Decreasing visual attention-grabbing distractions by using only touch.
- Replacing mechanical buttons with customizable tactile clicks and buttons.

Our Clients



Use Cases

Gaming

Experience immersive gaming like never before by adding tactile feedback. Feel the environment as you explore unknown territories, enemy attacks, and more!

Entertainment

- Enhance the 4D/5D cinema experience by adding localized HD haptic sensations when watching the movie - Don't just watch; live the experience!
- Amusement parks and LBE's experiences will never be the same again!

Our Clients

PUYDUFOU®



Gaming & entertainment

Feel the virtual world for complete immersion



Use Cases



Wellness & Accessibility

Make experiences truly accessible through touch

Wellness

- Integrate haptics to add massaging and relaxing functions to your products
- Create a sleep aid pillow based on cardiac coherence to control breathing via subtle and precise vibrations
- Add vibrotactile effects that match every individual's preferences and are based on high-definition haptic research to sexual well-being products.

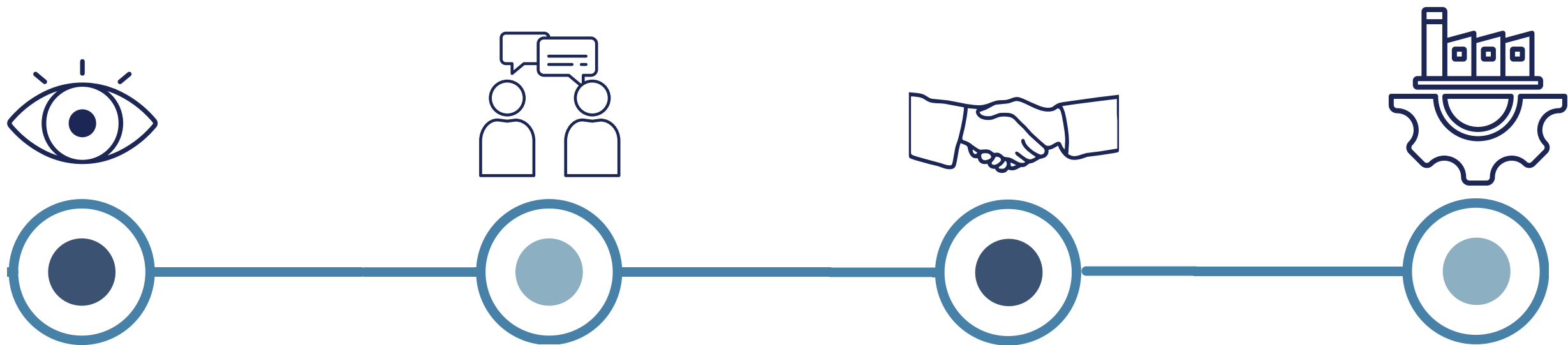
Accessibility

- Provide information through touch to the visually and hearing impaired to enable them to travel autonomously.
- Make any train seat not only comfortable but also functional by allowing them to transmit alerts, information, validations, etc.
- Make sound content accessible also for seniors, the hearing impaired, or non-hearing profiles by allowing them to hear through bone conduction and feel vibrations in time with the music through delicately tuned, high-fidelity vibrations.

Our Clients



Your project step by step



Identification of your needs

We make sure that haptics are needed in your product.

Proof of concept

Realization of a prototype based on your request

Co-development

We help you to develop your product

Industrialization

Assistance of the industrialization the product

What can **Haptics** do for you?



contact@actronika.com | +33 (0) 9 66 98 77 32



157 boulevard Macdonald, 75019 Paris



www.actronika.com/

