

Live Macro Lab

Where science meets interaction

Project presentation

About

I am a creative technologist and interactive developer specializing in complex, high-impact installations, with 15+ years of experience serving B2B and B2C clients across industries.

WHAT I DO

Interactive installations

Data visualization

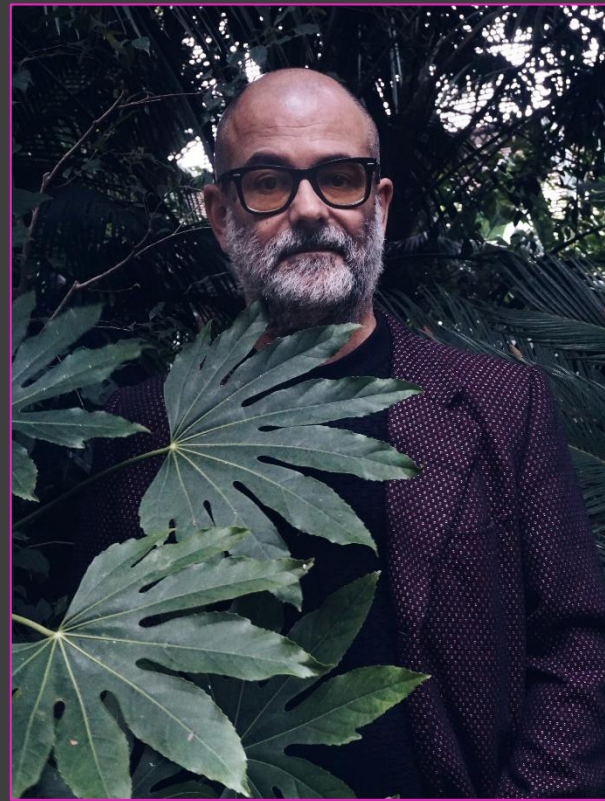
Information design

Real-time visuals

User interface design

User interface design

Italian roots | Barcelona base | Global reach





Introducing

Live Macro Lab project

The project

Live Macro Lab is an interactive mechatronic installation that brings coronary stent technology to life.

Designed for **medical professionals**, it translates complex clinical information into a tangible, engaging **experience**, where scientific **rigor** meets interactive **storytelling**.

Client: IHT Medical

Sector: MedTech

Where: EuroPCR 2026

What: interventional cardiovascular medicine congress

LET'S WATCH THE VIDEO

(click anywhere on the page)

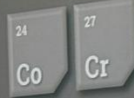
HIN

complex anatomy

Designed for long

STRENGTH

1. Alloy

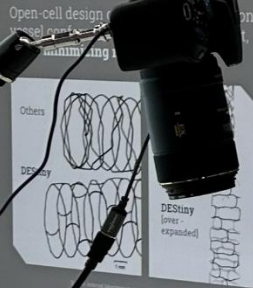


Each element provides complementary material properties. Maximal radial strength and low recoil with ultrathin struts



Source: Data based on publicly available material properties

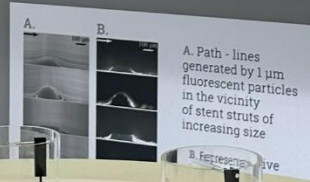
2. Scaffold design



ADAPTABILITY

3. Refinement

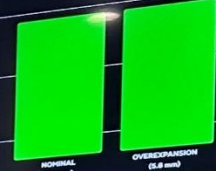
Advanced surface refinement processes optimize strut geometry at the micron level, resulting in **ultrathin struts** with a smooth, clean surface finish



PERFORMANCE



SB ACCESS DIAMETER (mm)
PRESERVED GEOMETRY



PLATFORM	Regular
STRUT THICKNESS	68 µm
RECOIL	-4%
FORESHORTENING	+ 2.00 %

LIVE
MACRO
LAB

How it works

Stents are individually housed in transparent display stations



How it works

Users select the desired specimen by rotating a physical encoder



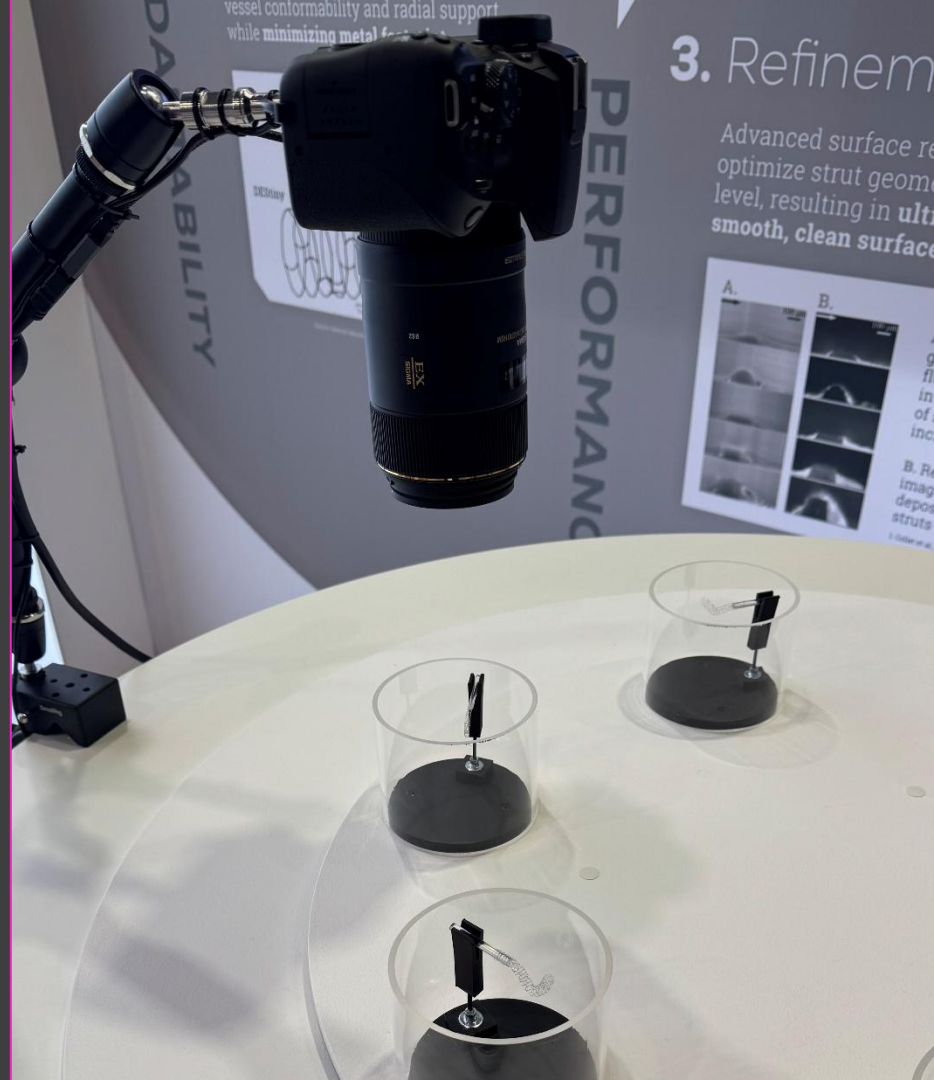
How it works

The table responds by smoothly rotating to the chosen station



How it works

A macro lens camera captures the stent in close-up detail



How it works

Real-time infographics and callouts present its key technical features on screen.

The entire experience is fluid and interaction-driven.



Components

The system integrates four core components

- A custom-built rotating table driven by a bespoke mechatronic system

- A sensor and controller layer managing hardware/software communication

- A camera equipped with a macro lens for close-up capture

- Custom software handling both the live video feed and data visualization

Modularity

The project is fully modular and adaptable to a wide range of high-precision medical applications, wherever macro imaging and information design play a critical role.

Every aspect of the installation can be tailored to specific needs.

Size & form factor

Interaction model

Overall look & feel

Materials & finishes

User interface

Control software

Versatility

The installation is a versatile platform, designed to serve a wide range of contexts and objectives.

- Trade fairs and events

- Corporate meetings and presentations

- Marketing activations

- Brand awareness campaigns

- Media events



From secure packaging and shipping to complete on-site installation, everything is taken care of.

Have a project in mind? Let's talk



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