Gianmaria Vernetti

TouchDesigner developer
Creative technologist

Starting point

I am a freelance TouchDesigner developer with a strong background in creative technologies and interaction design.

WHAT I DO

Interactive installations	Real-time generative visuals
Sensors and IoT protocols	AI and computer vision integration

Tech skills

Programming

TouchDesigner

Max/MSP

Processing/P5.js

Javascript

Python

Technologies

Sensors

Raspberry
Arduino
ESP32

MQTT
OSC
TCP/UDP

AI

Stable Diffusion

StreamDiffusion

ComfyUI
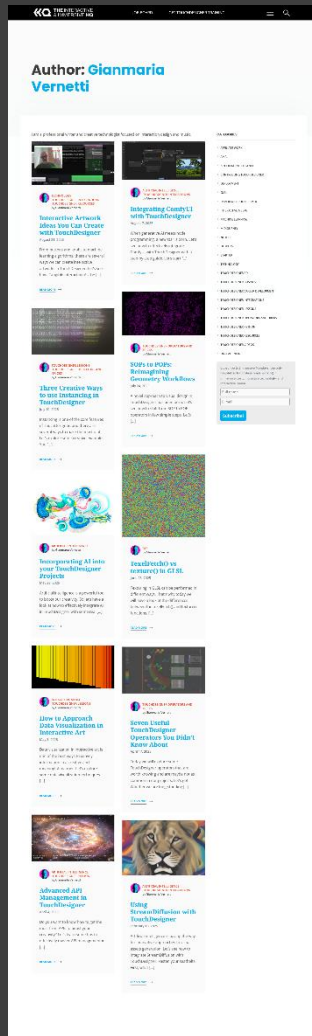
Custom LoRA models

Selected works

The Interactive & Immersive HQ

Content creation for The Interactive & Immersive HQ, a leading online platform dedicated to digital art and creative technologies.

Last contributions:

- Incorporating AI into your TouchDesigner Projects
- TexelFetch() vs texture() in GLSL
- Three Creative Ways to use Instancing in TouchDesigner
- Integrating ComfyUI with TouchDesigner
- SOPs to POPs: Reimagining Geometry Workflows
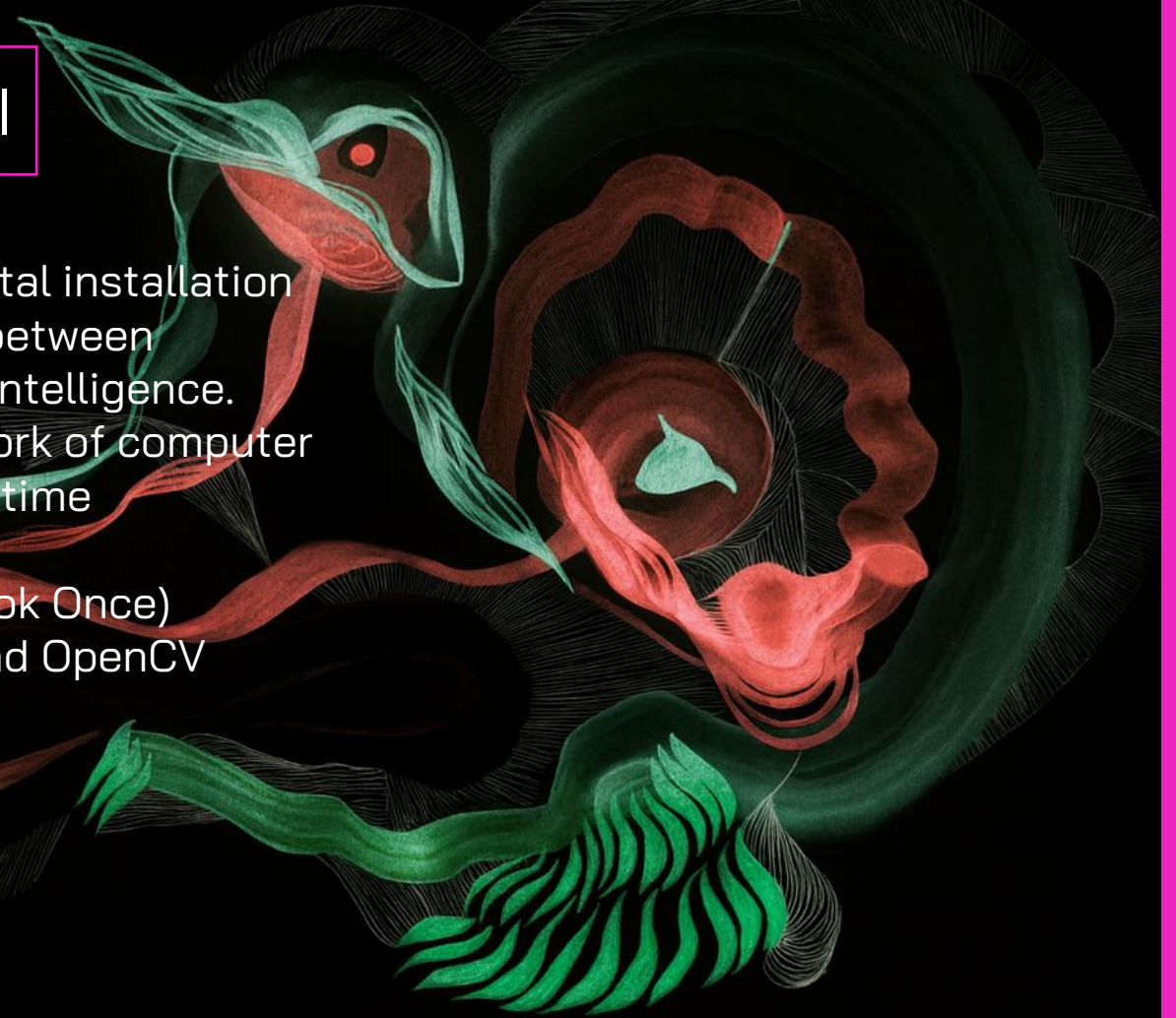- Interactive Artwork Ideas You Can Create with TouchDesigner

Project: TrichomesAI

TrichomesAI is a physical-digital installation
that explores the interaction between
plants, humans, and artificial intelligence.
It is based on a complex network of computer
vision sensors that feed a realtime
generative AI system.
Made with YOLO (You Only Look Once)
computer vision algorithms and OpenCV
techniques.

Made with: TouchDesigner, Python, ESP32

Keywords: AI, computer vision
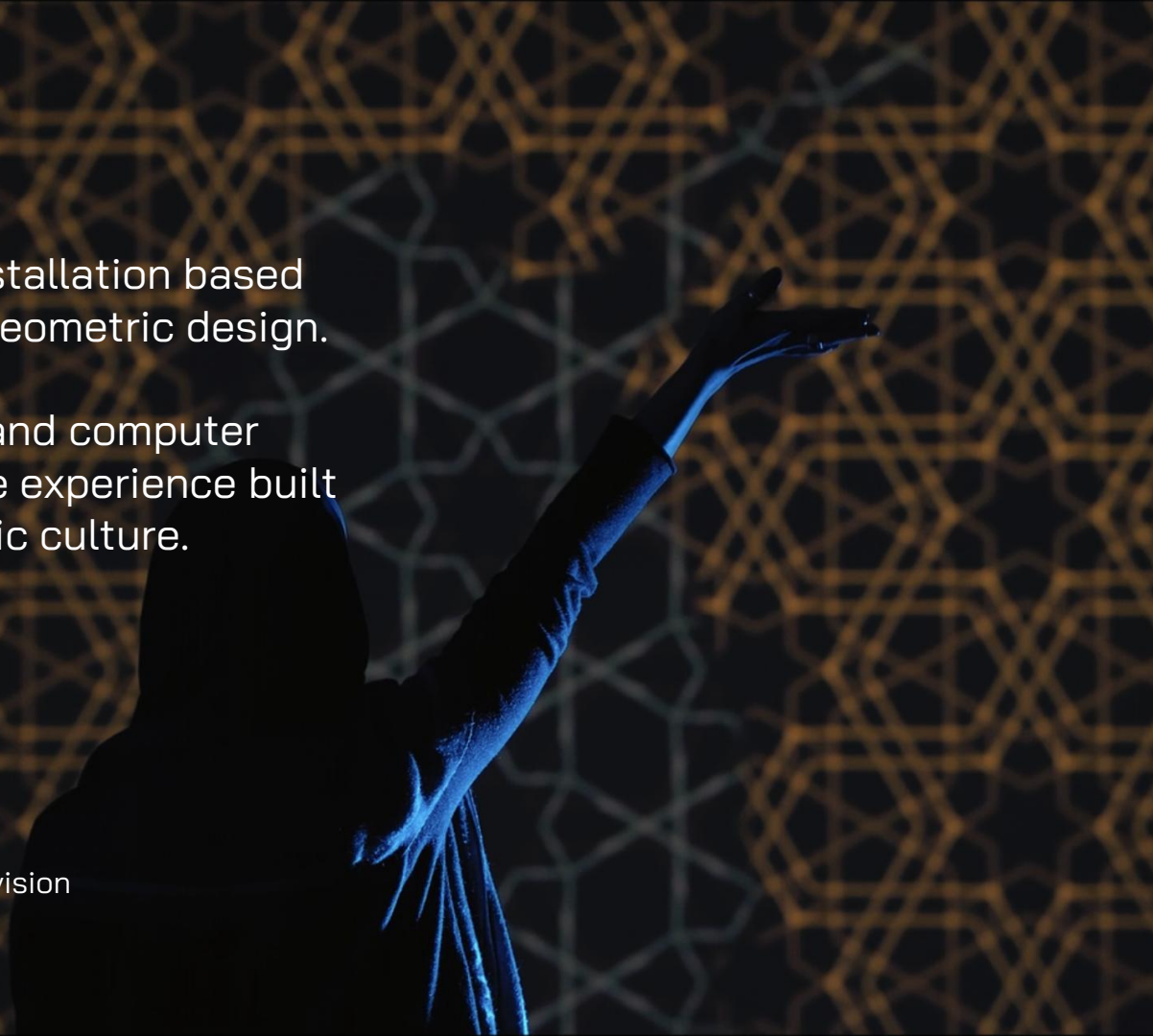
Project: Al-ʿišq

Al-ʿišq is a live interactive installation based on the principles of Islamic geometric design.

Al-ʿišq makes use of design and computer vision to create an immersive experience built upon the aesthetics of Islamic culture.

Video [→

Made with: TouchDesigner and Max/MSP

Keywords: parametric design, computer vision

Project: Here and now in 82021

Here and now in 82021 is a NFT serial work that turns information into data art for distant future generations.

Starting from the beginning of 2021, for 365 days the most relevant news of each single day were transformed into visuals and code, to the advantage of the human beings of 82021.

OpenSea ⌐→

Made with: TouchDesigner and Max/MSP

Keywords: generative design, NFT

Project: Our selves

Our Selves is an audiovisual installation that explores the relation between human brainwaves and smartphone data.

Our Selves creates an immersive visual soundscape and an imaginary conversation between thoughts and smartphone connections data.

Video ⤷→

Made with: TouchDesigner

Keywords: data visualization, EEG

Listen Facebook

Project: La scatola nera e il suono dell'antimateria

La scatola nera e il suono dell'antimaterial
is a gesture-reactive audio installation.

It is based on the sonification of L'Anticamera
della Morte (The Death Waiting Room), a work by
Pinot Gallizio (1902-1964), painter, chemist, poet
and situationist.

More [→

Project: Pianotronics

Pianotronics is an audiovisual live set.

The eight pieces of the project combine advanced sound design treatments and visual techniques, including audio-reactive particle systems, generative shapes, video glitch and more.

Audio →

Visuals →

Made with: TouchDesigner, Ableton Live, Elektron Octatrck

Keywords: generative design, sound design, glitch

Contact

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🌍 Based in Barcelona
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Well, thanks for your attention