

3D APPAREL DESIGNER PORTFOLIO

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TERESA HELBIG

On September 2023, at the Mercedes-Benz Madrid Fashion Week, Union Avatars and Teresa Helbig took center stage to unveil a new era in fashion presentation.

Through cutting-edge avatar technology, they breathed life into a digital collection that transcended the traditional runway show.

Paris-Texas SS24 is a phygital collection inspired by the contradiction of two scenarios, the city of Paris and the state of Texas.

The project involved digitizing pieces from their collection to craft an audiovisual presentation for the runway.

SOFTWARE INVOLVED:

CLO 3D (pattern making and 3D model)
Adobe Illustrator
Adobe Substance Painter (texturing)
Blender (lighting and renders)



RENDERS

Paris-Texas SS24 phygital collection.





PURE JACKET

—
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PURE JACKET was built to participate in the RO-PLASTIC Prize for the Milano Fashion Week 2021 and received the **Honourable Mention at the RO PLASTIC PRIZE 2020 Conscious Innovation Projects category.**

The jacket has been designed by 3D modelling, allowing us to create a complex design of clothes and textile and even reduce wastage of material. The ability to use this information in a digital simulation, enables us to maximize the material functionality and predict a better resource used.

SOFTWARE INVOLVED:

CLO 3D (garment design and renders)
Rhino/Grasshopper (3D printed patches)
RD WORKS (fabric laser cut)
Simplify (gcode to 3D print)

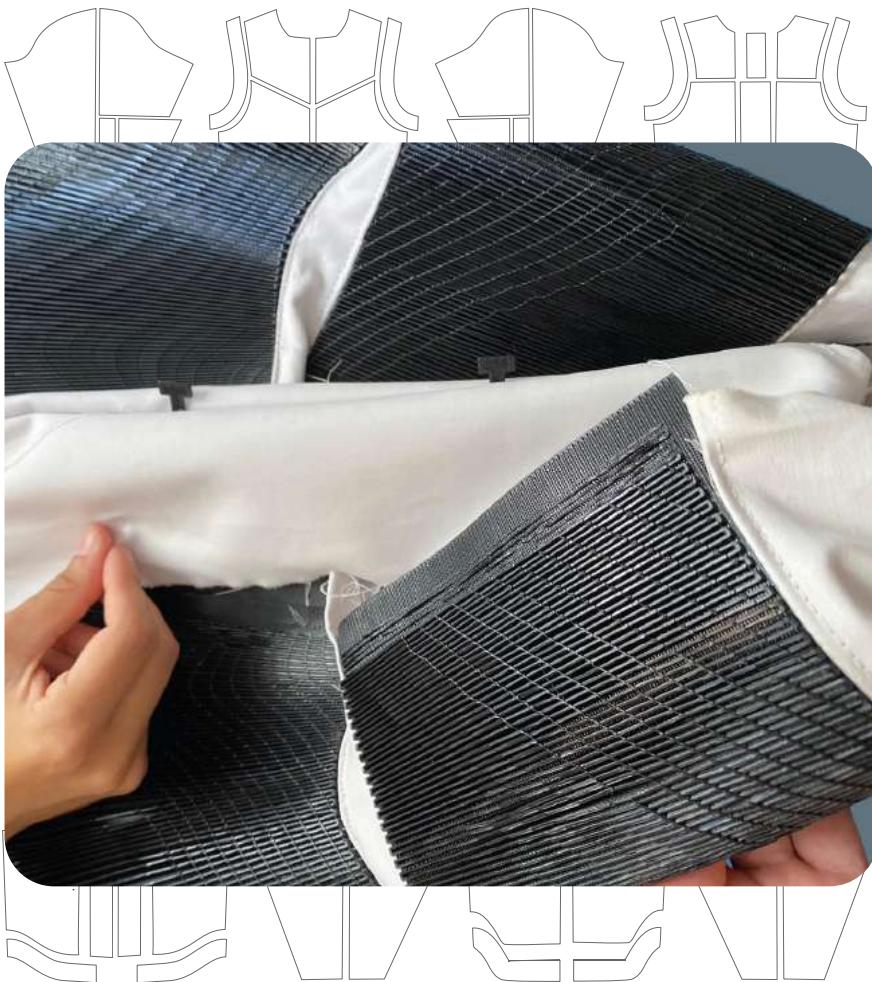
ASSEMBLING:

Sewing machine and hand sewing.



INVESTIGATION PROCESS

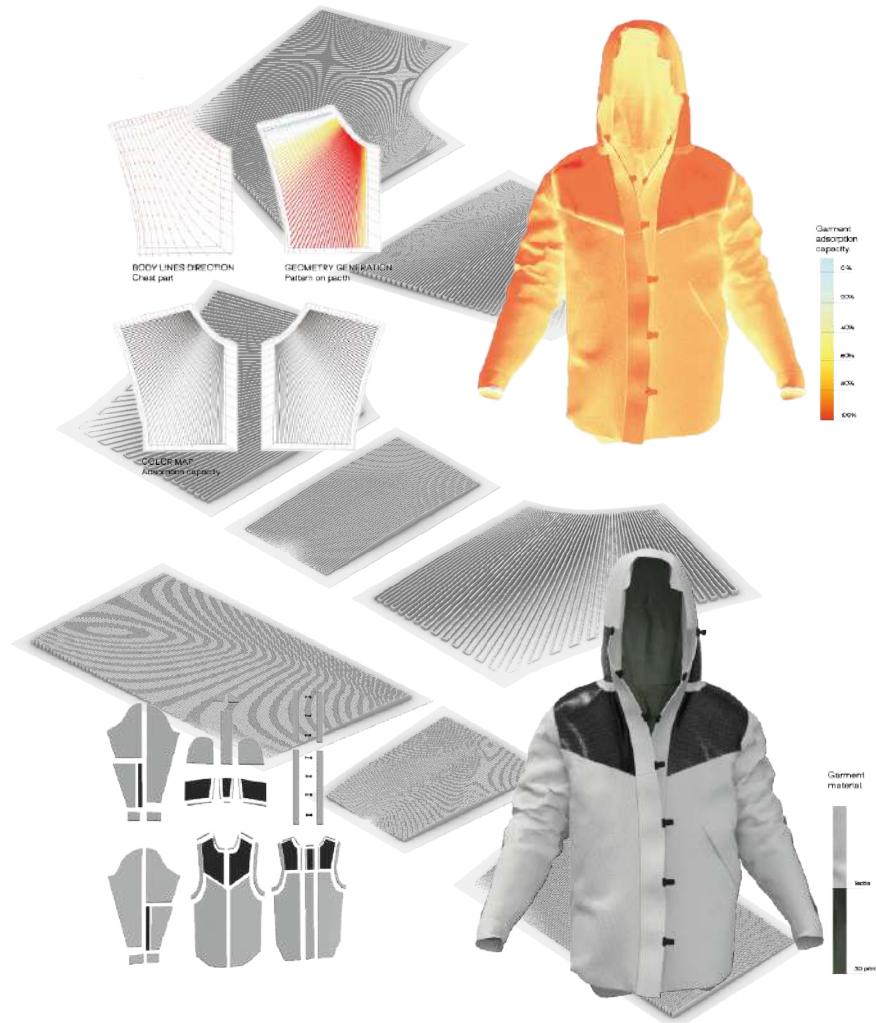
Patterns.



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RENDERS

Absorption capacity and fabric calculation.





PWR_SUPPLY

PWR.supply is a lifestyle apparel brand with the mission to create a tribe for anyone who shares passion for gaming and streetwear. It was founded by content creator and esports personality, Lachlan Power.

The collection is defined by high quality basics that reference a contemporary mix of loungewear and techwear, created by gamers, for gamers.

The project consisted on a digital transformation for their e-commerce platform, exclusive drops, social media content, gaming skins and NFT's.

SOFTWARE INVOLVED:

CLO 3D (pattern making and 3D model)
Adobe Illustrator
Adobe Substance Painter (texturing)
Blender (lighting and renders)



RENDERS

Phygital on-demand drop.



RENDERS

Phygital on-demand drop.



PRO BUNDLE MAX (BLACK)
\$164 USD [\\$221 USD](#)



BALAACLAVA HOODIE
(SHERPA FLEECE)
\$63 USD



CAMO HOODIE (TERRY)
\$78 USD



PRO BUNDLE (WHITE)
\$97 USD [\\$120 USD](#)



ADD YOUR NAME.
BE PART OF IT.



ADD YOUR NAME.
BE PART OF IT.



BE PART OF IT.





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PURE SNEAKERS

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PURE SNEAKERS is a collaboration with PROPELLAND design studio. It is a real initiative to incorporate sustainable designs to the actual market through a digital online shop.

This design has been designed and fabricated through a digital design process, merging computational design, 3D modelling, laser cutting and hand crafting.

SOFTWARE INVOLVED:

CLO 3D (upper patterns)
BLENDER (texturing and renders)
Rhino/Grasshopper (midsole parts and upper pattern)
Simplify (gcode to 3D print)

ASSEMBLING:

Industrial production.



INVESTIGATION PROCESS

3D printed components.

**RENDERS**

Exploded sneaker and final version.





ACT LOOK

ACT LOOK is committed with the environment, having the capacity to absorb green houses gases and other contaminants through the textile and filament for the 3D printed components.

This look is the main inspiration for an e-commerce brand for orders on demand.

SOFTWARE INVOLVED:

CLO 3D (garment design and renders)
Rhino/Grasshopper (3D printed components)
RD WORKS (fabric laser cut)
Simplify (gcode to 3D print)

ASSEMBLING:

Sewing machine and hand sewing.



MOODBOARD AND CONCEPT

Nature , species survival, ecosystem, cicles, preservation.



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E-COMMERCE (organic cotton 100% - natural dyeing + 3D printed labels TPU)

On demand e-commerce.





PURE MASK

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PURE MASK is manufactured in two layers, a 3D printed textile shell with TPU Material and an internal filter with antiviral treatment capable of filtering and protecting the humans from micro-organisms such corona-virus.

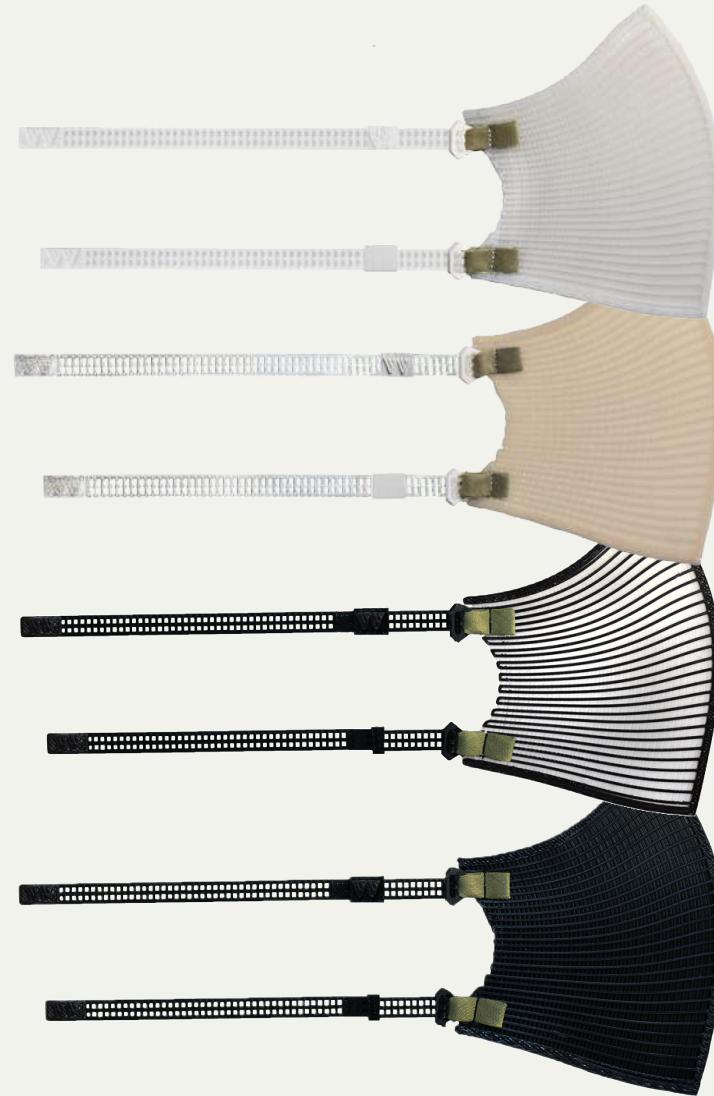
PURE MASK has been designed and fabricated through a digital design process, merging computational design, rapid prototyping, laser cutting and hand crafting.

SOFTWARE INVOLVED:

CLO 3D (filter pattern)
Rhino/Grasshopper (3D printed shell)
RD WORKS (fabric laser cut)
Simplify (gcode to 3D print)

ASSEMBLING:

Sewing machine and hand sewing.



INVESTIGATION PROCESS

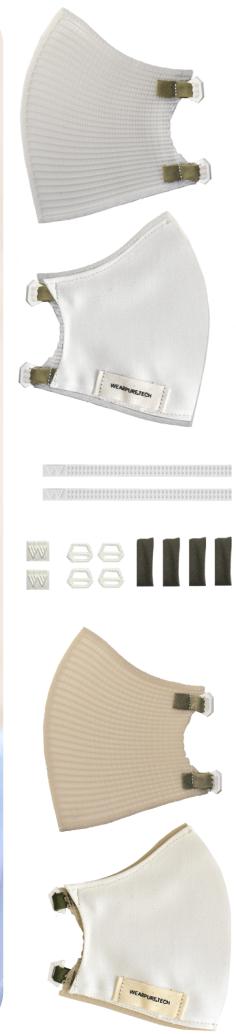
Shapes and anatomy.



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PROTOTYPE (*organic cotton 100% + 3D printed body and stripes TPU*)

Antiviral and antibacterial mask.



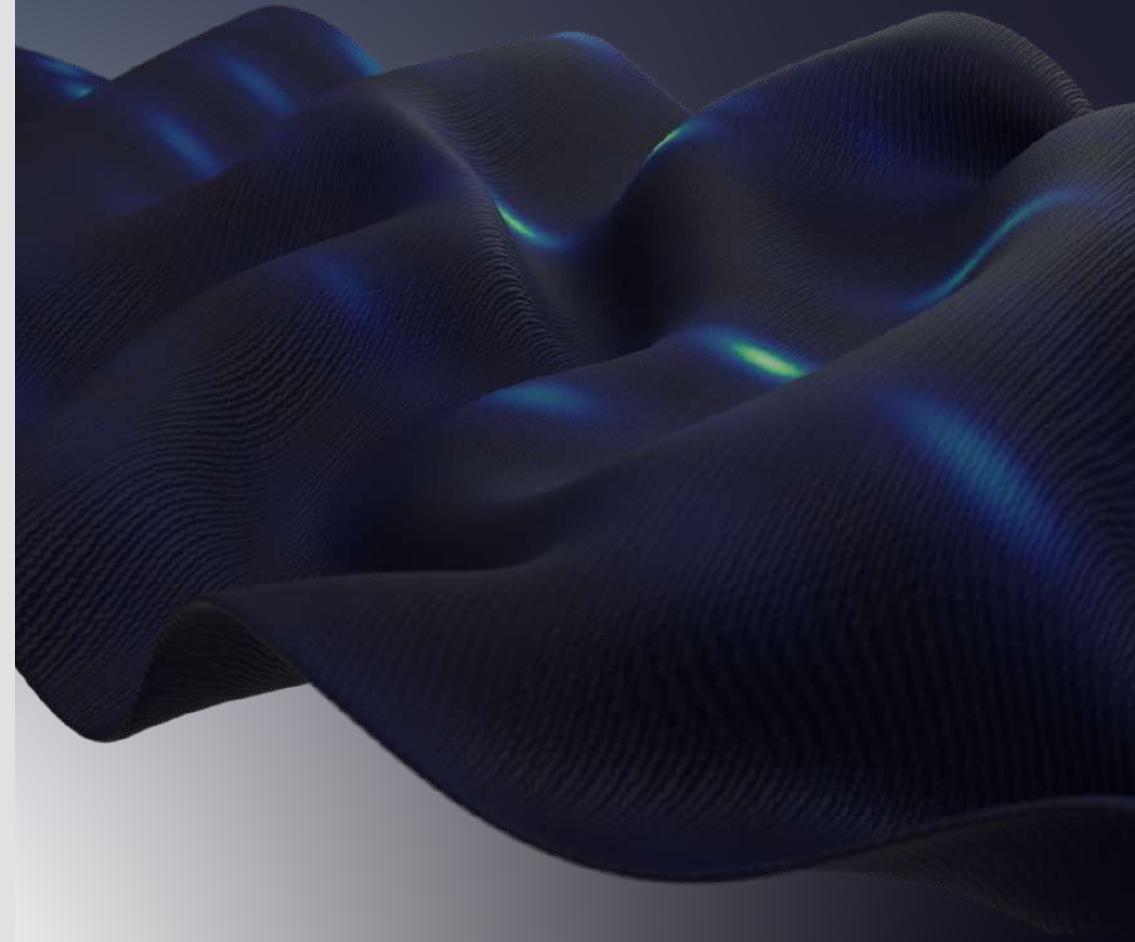
DIGITAL ONLY

Past and actual projects...

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SOFTWARE INVOLVED:

CLO 3D
ADOBE SUBSTANCE SAMPLER
ADOBE SUBSTANCE PAINTER
ADOBE ILLUSTRATOR
ADOBE PHOTOSHOP
BLENDER
AFTER EFFECTS
LENS STUDIO



MNY X RPM

The world's biggest makeup brand is betting on the metaverse.

Maybelline is dipping its toes into Web3, starting with sponsoring a virtual fashion competition called "Fashioning Masculinities".

The initiative comes under Maybelline's ongoing collaboration with Ready Player Me, which creates makeup looks for the Metaverse avatars in conjunction with hairstyles from sister brand L'Oréal Professionnel.

As a winner of the contest, I was invited to collaborate in the second drop of makeups for Maybelline New York and Ready Player Me platform.

SOFTWARE INVOLVED:

CLO 3D (pattern making and 3D model)
Adobe Substance Painter (texturing)
Blender (lighting and renders)
Blender (rigging and weight transfer)
Ready Player Me (adding low-poly assets)





41°23'19.6"N
10°0'54"E

L'ORÉAL
PROFESSIONNEL
PARIS

MAYBELLINE
NEW YORK

READY
PLAYER
ME



AR-SNAPCHAT



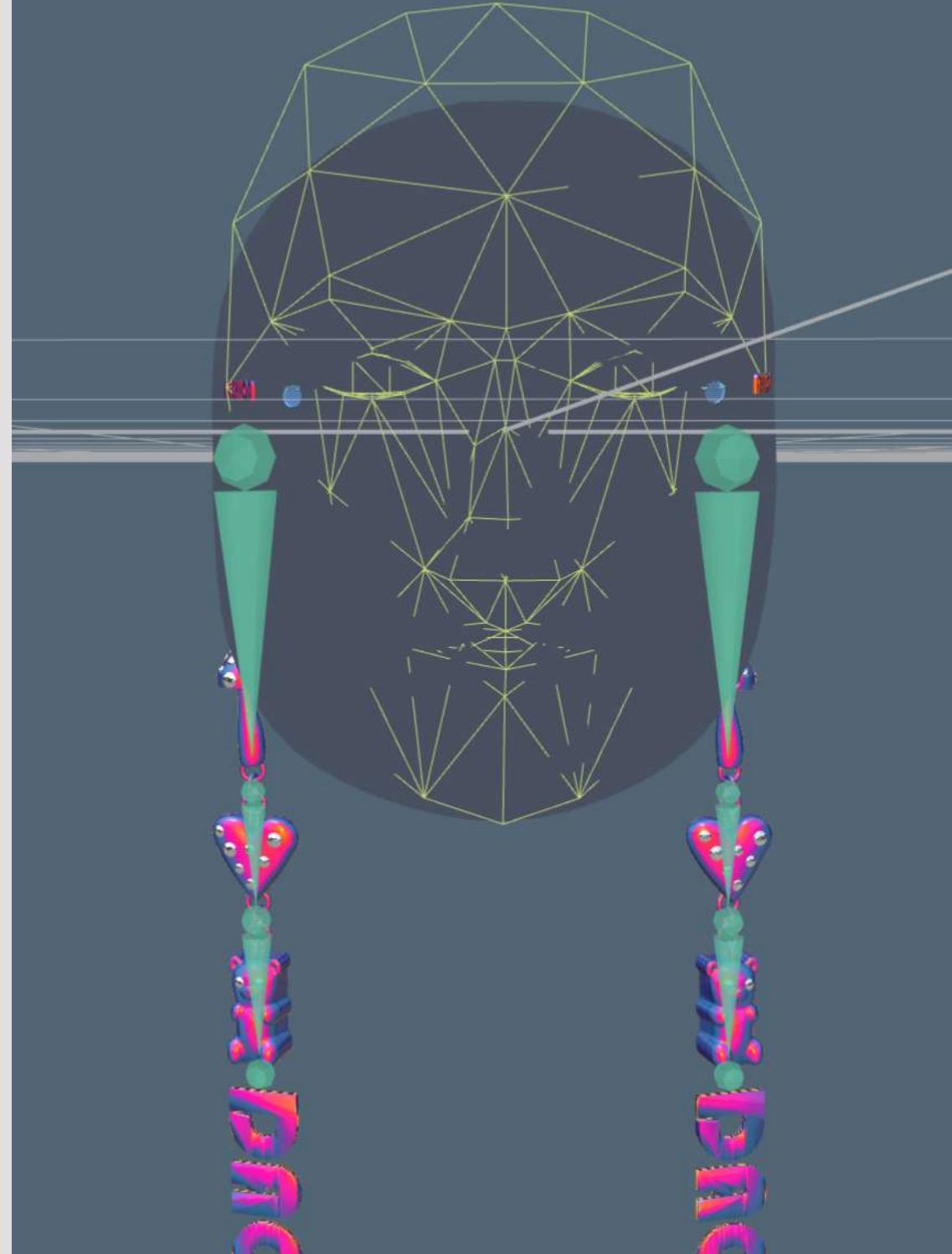
Lens Studio is a real-time tool for creating Snapchat Lenses. It allows you to create both Face Lenses (front camera experiences) and World Lenses (rear camera experiences).

The tool allows creators, from 3D professionals to Photoshop hobbyists, to create their own customized Lens experiences.

"Earrings have been worn by people throughout different civilizations and historic periods, often holding cultural significance. The DAOs were created to empower individuals to enhance their physical appearance and elevate their spirits within a decentralized community, fostering a sense of belonging and trust in a transparent network."

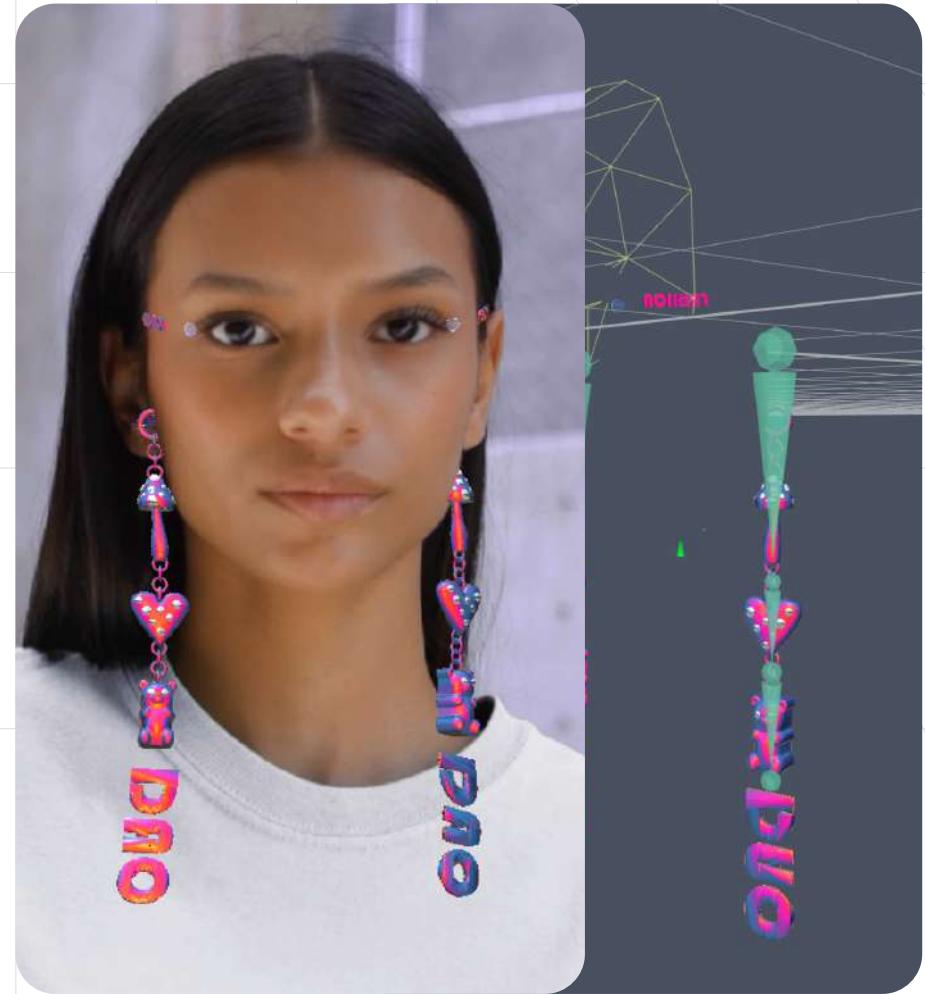
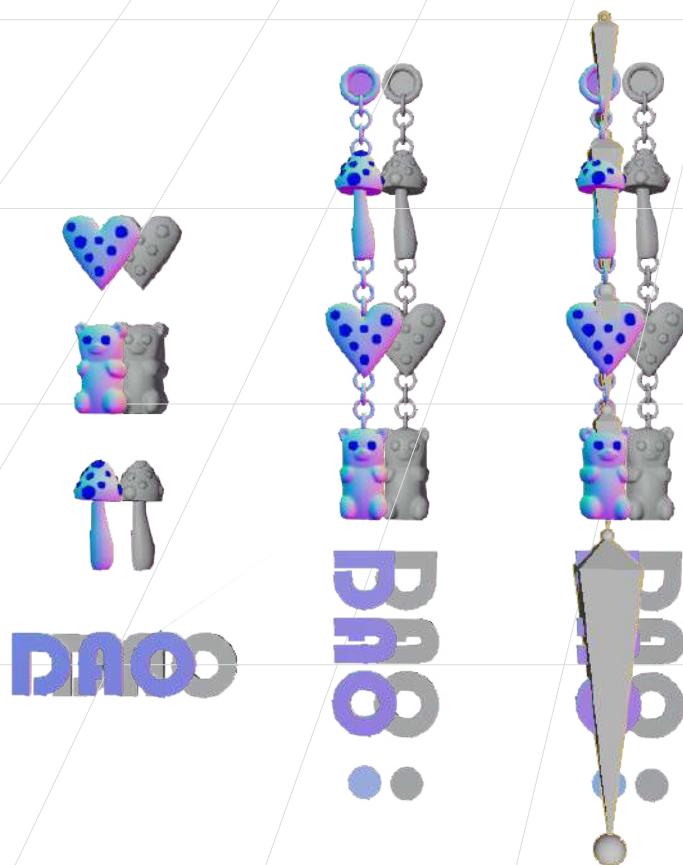
SOFTWARE INVOLVED:

CLO 3D (pattern making and 3D model)
Adobe Substance Painter (texturing)
Blender (lighting and renders)
Blender (rigging and weight transfer)
Lens Studio (AR filter to Snapchat)



JEWELRY / EARRINGS

Snapchat try-on filter.



AR-ZERO10APP



ZERO10 is an iOS app where users can try on digital clothes in real-time through their phone camera, collect items in the digital Wardrobe and create sharable content for their social media.

All digital collections are created in collaboration with both emerging and well-known fashion brands, musicians and artists to be presented within limited drops inside the app.

A unique combination of technologies behind the app — 3D body tracking, cloth simulation and body segmentation — makes ZERO10 one of a kind on the digital fashion scene today.

SOFTWARE INVOLVED:

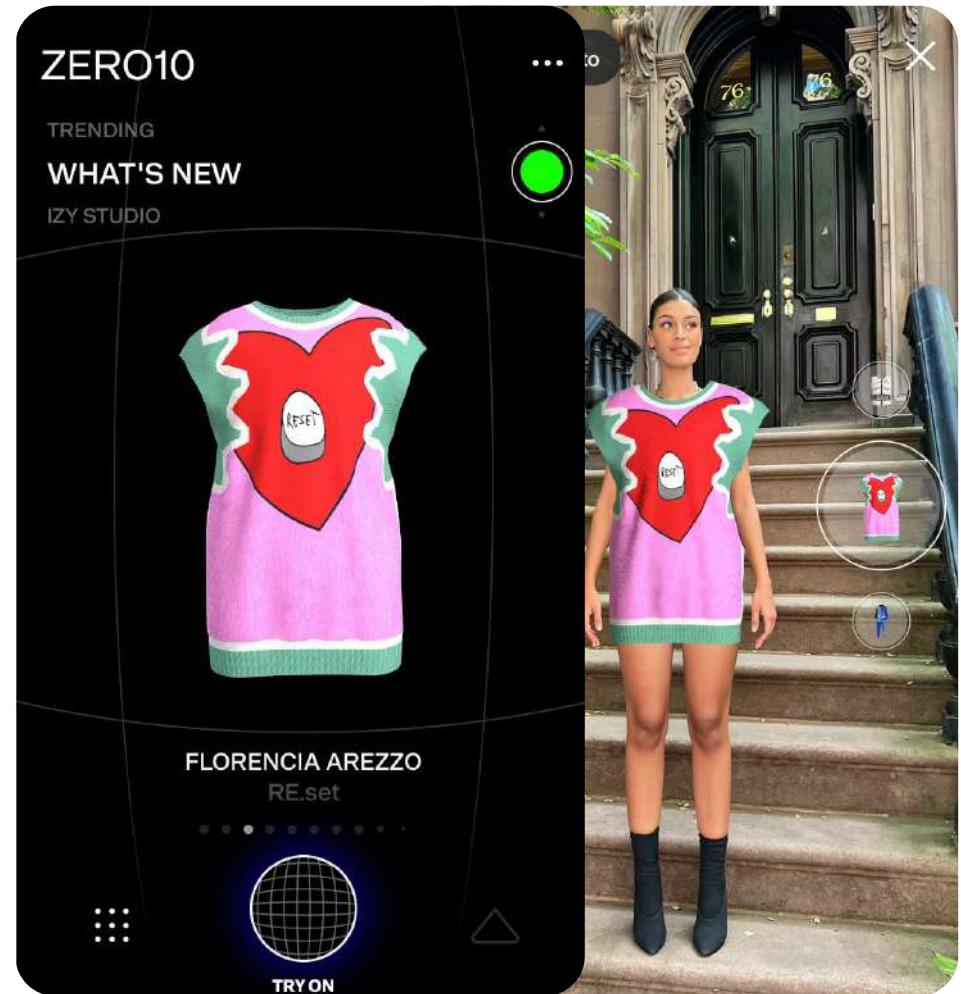
CLO 3D (pattern making and 3D model)
Adobe Substance Painter (texturing)
Blender (lighting and renders)
Blender (rigging and weight transfer)



TRY-ON IN THE ZERO10 APP

RE.set Drop is an oversized woven vest inspired by artist @mianco.art.

41°23'19.6" N











PORTFOLIO

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MOLLIE_SNAPCHAT











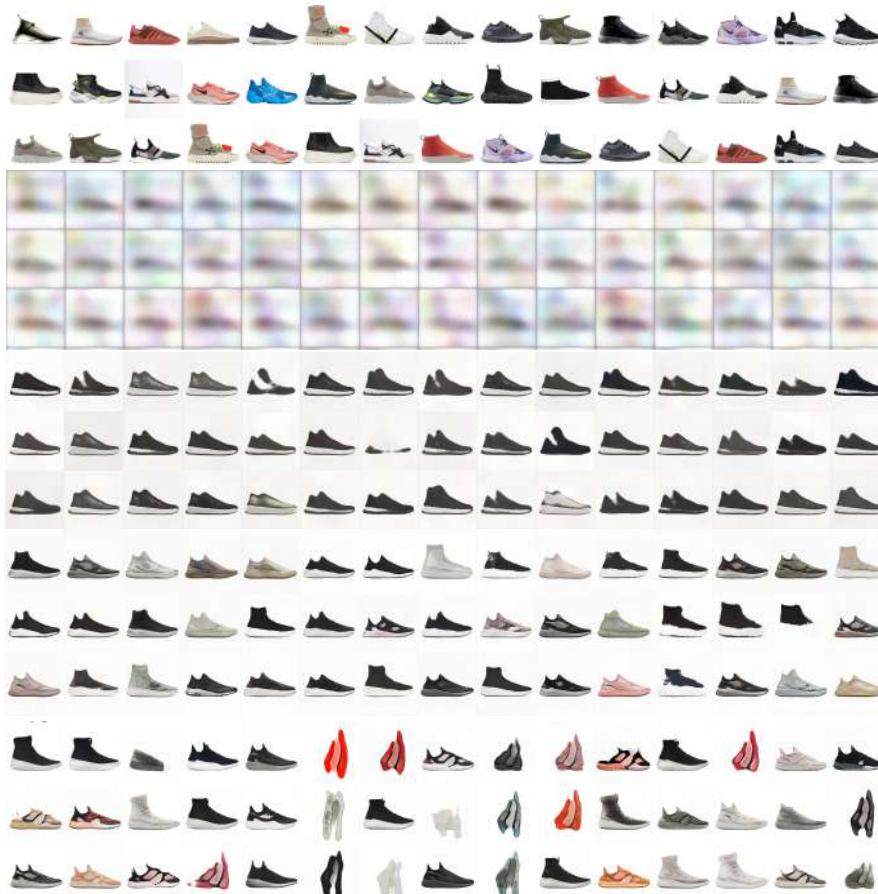






TRAINING SET / STYLE GAN - MIDSOLE GENERATOR (ADA-AI)

The idea is to generate shapes and textures using a GAN (Generative Adversarial Network) model to sample different customizable styles of the different brand's sneakers and create beautiful modified versions of it.



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PHYSIOPASS APP - ANIMATIONS

The Physiopass App helps Physiotherapists to provide better and personalized therapy to their patients. The patients have access to instructions, videos and other information about the exercises to make the activities at home easy and safe.



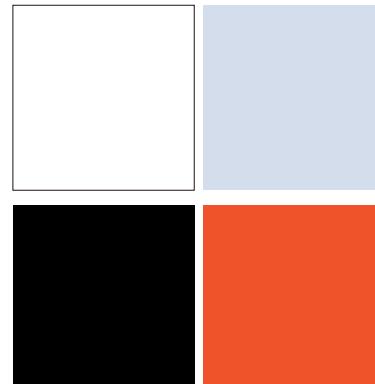
FASHION PRINT PATTERNS

Rapports all-over prints development with Photoshop and Illustrator, from 2D to 3D color testing in CLO 3D.



rapport/all over

GALMO
NMHZRE
SDPOLR
MRTYD



ADIDAS X KARLIE KLOSS - ANIMATION

The Fabricant joined forces with global sportswear company adidas and supermodel Karlie Kloss to challenge creators to design their own version of the Wind.RDY Parka Jacket, from the adidas x Karlie Kloss collection. #MAKINGSTRIDES



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