

**RAFFAELE FIAMMENGHI**

**SELECTED WORKS**

# ARCHIVE OVERVIEW

## PHASE 02 \_ RELENTLESS STRUCTURE

Tailored Architecture, Hardware Prototyping & High-Performance Outerwear.

[3]

## PHASE 01 \_ ASHEN REFINEMENT

Garment Deconstruction, Visual Identity & Digital Worldbuilding.

[25]

## PHASE 00 \_ ROUGH GENESIS

Manual Drafting, Geometric Perspective & Foundational Volumes.

[37]

# 02\_RELENTLESS STRUCTURE

Functional body armor and sculptural tailoring.

This archive tests ergonomic impact gear against extreme, asymmetric silhouettes. It brings together the Dainese x Rick Owens system, archival Dior deconstruction with FIT NYC, and precision 3D hardware engineering.



# DAINESE by RICK OWENS



Protective biomechanics meets post-apocalyptic tailoring. Rigid protective elements collide with heavy, draped garments.

Monochromatic silhouettes, sharp geometric cutlines, and raw structural tension, broken only by blood-red technical accents.





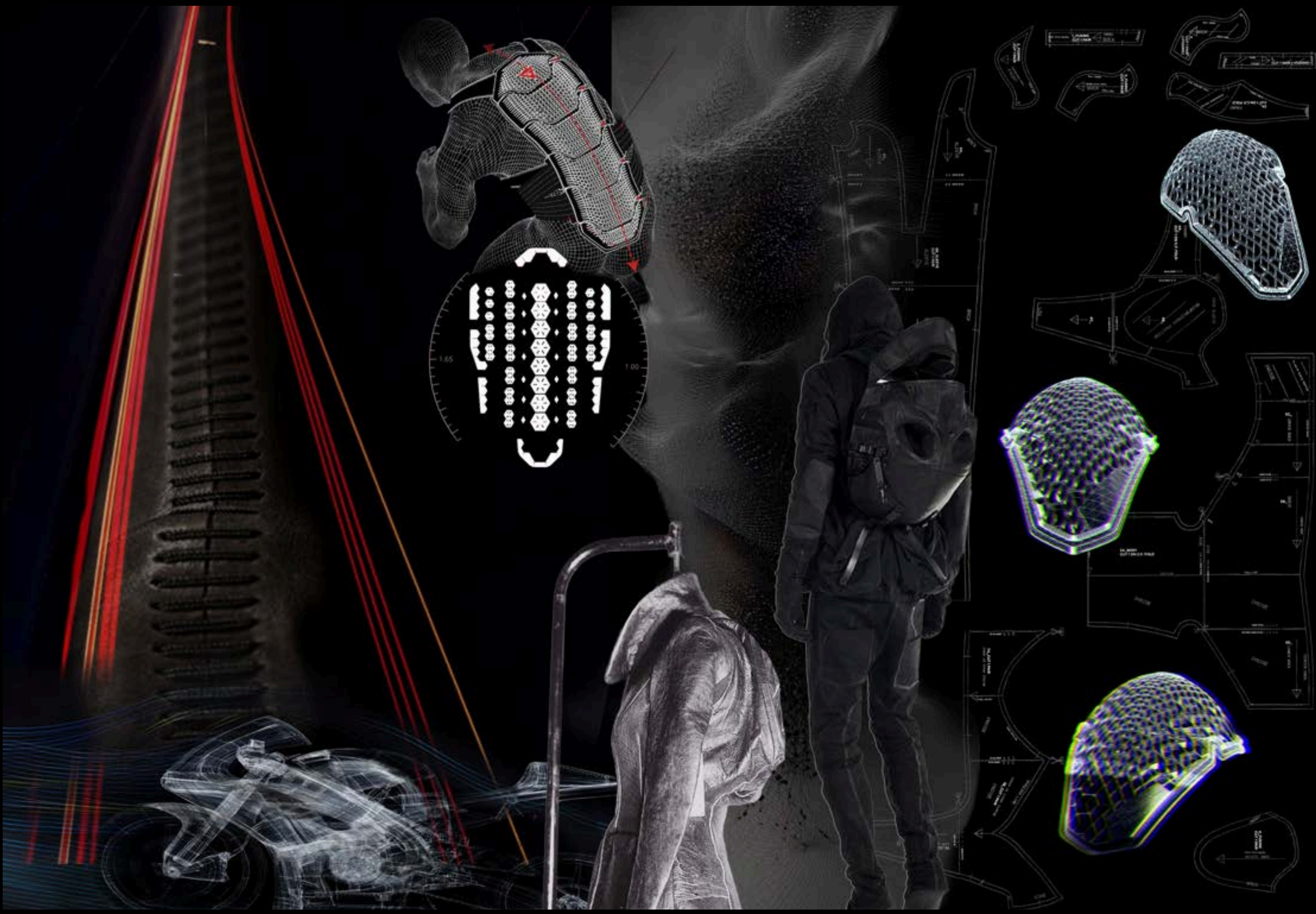
## **DNA HYBRIDIZATION**

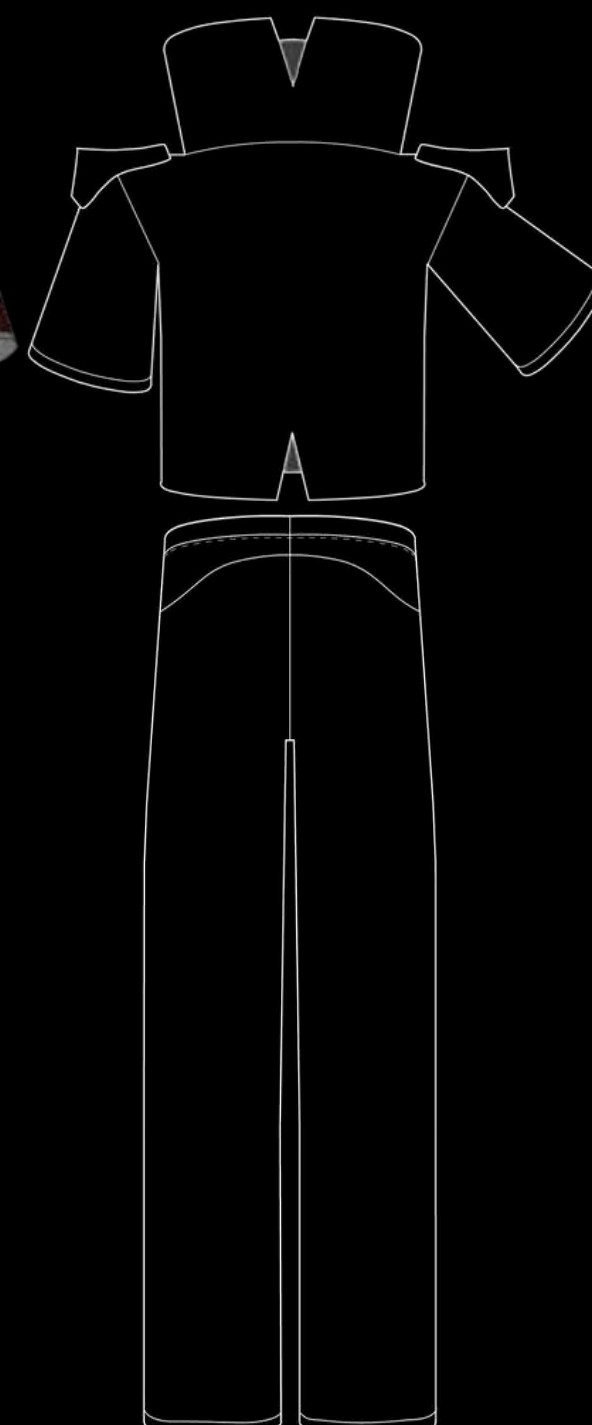
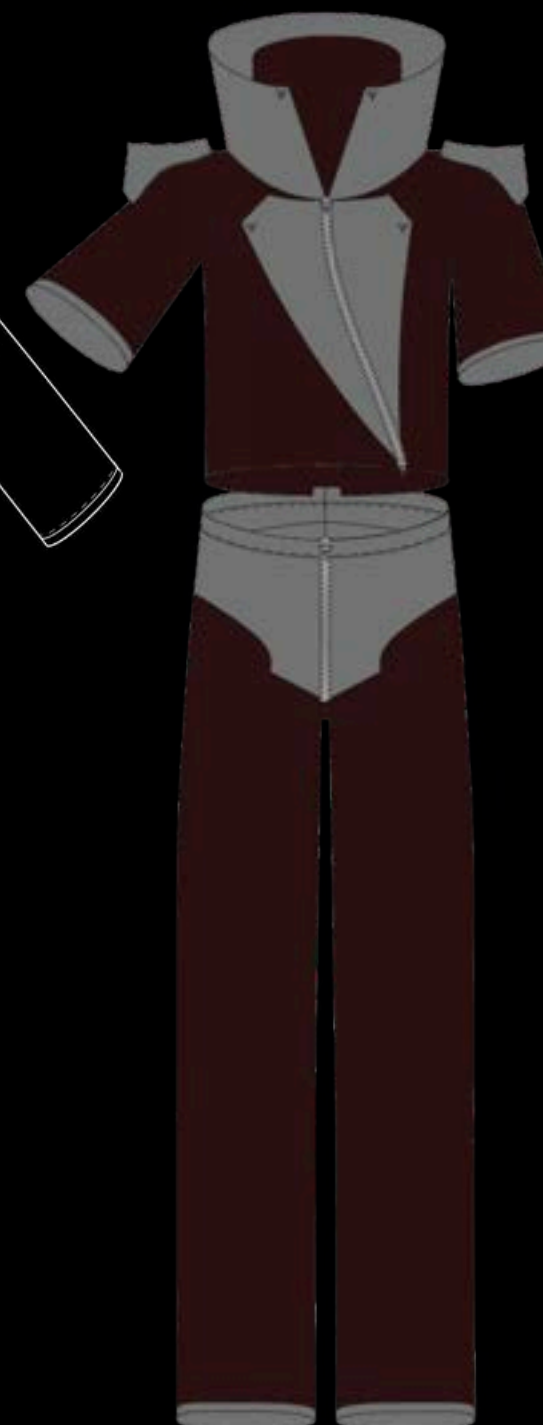
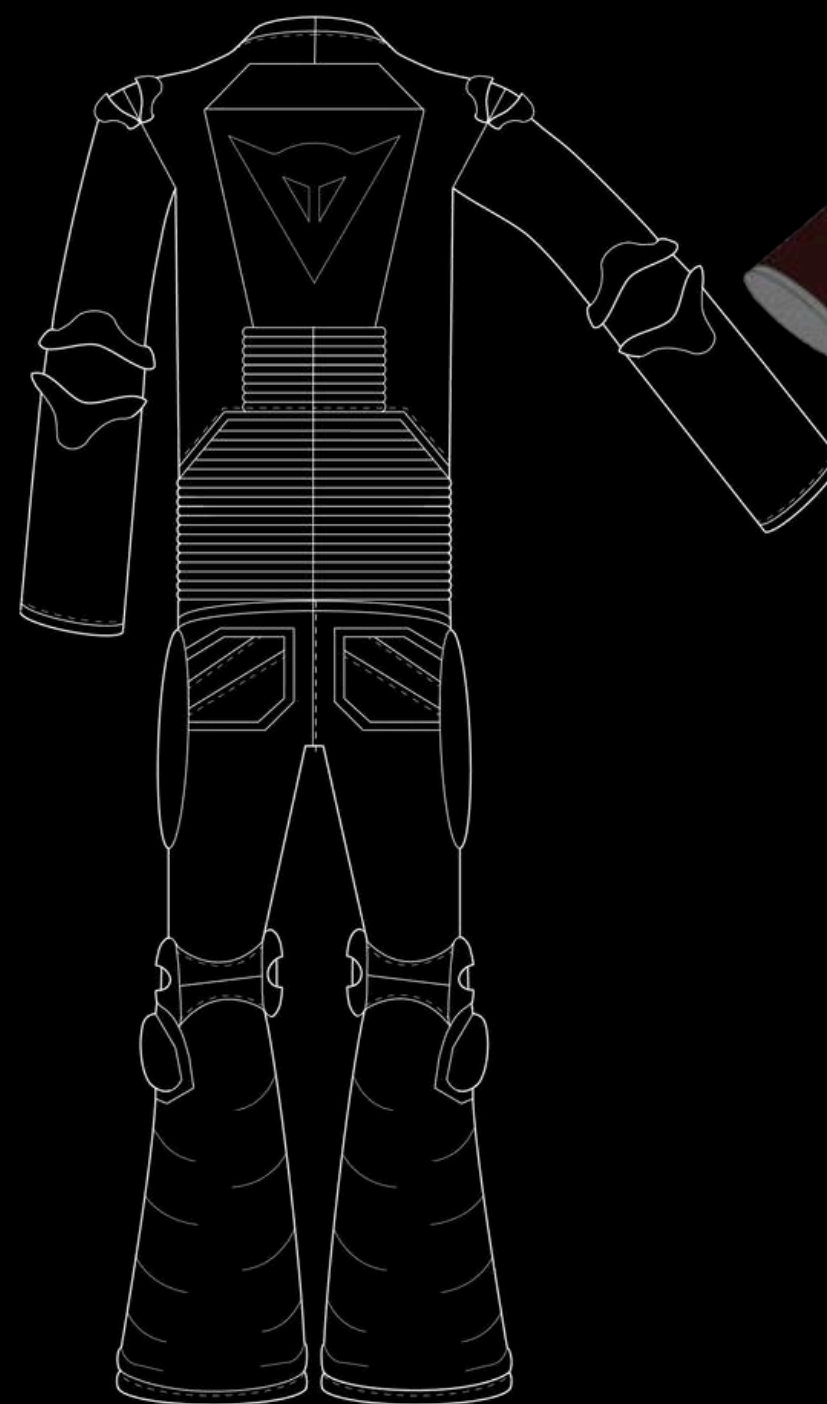
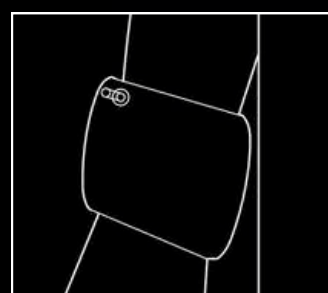
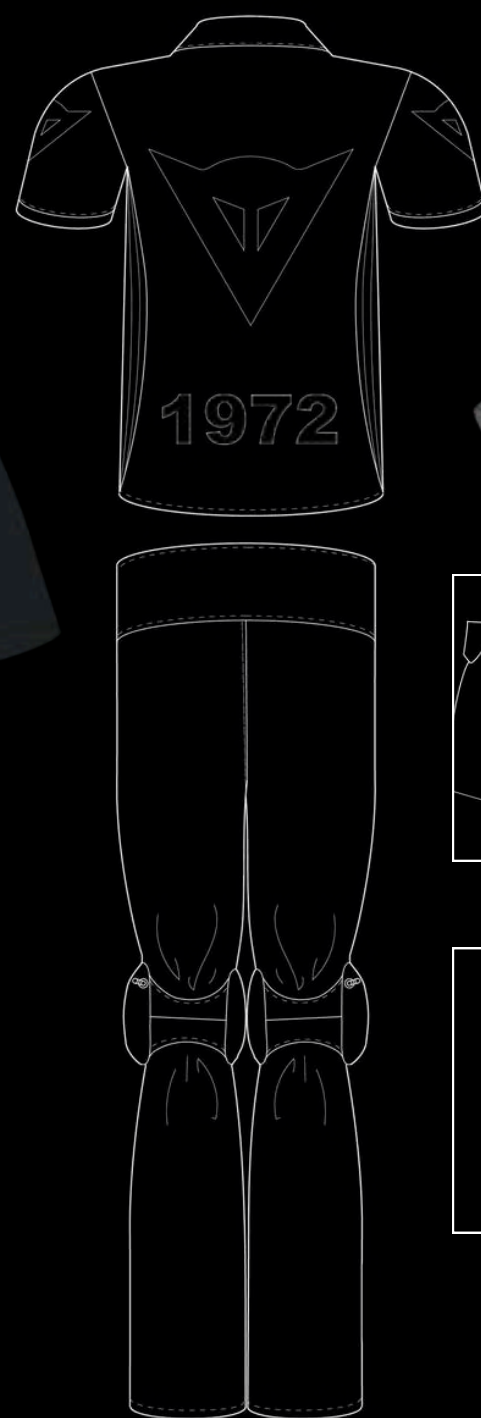
Technical impact gear  
dismantled and reassembled into  
tailoring.

Hard-shell armor pieces are  
extracted and integrated directly  
into asymmetric wool and  
leather patterns.

Pure functional protection turned  
into everyday outerwear.

# PROPOPULSION





**// DISTORTION**

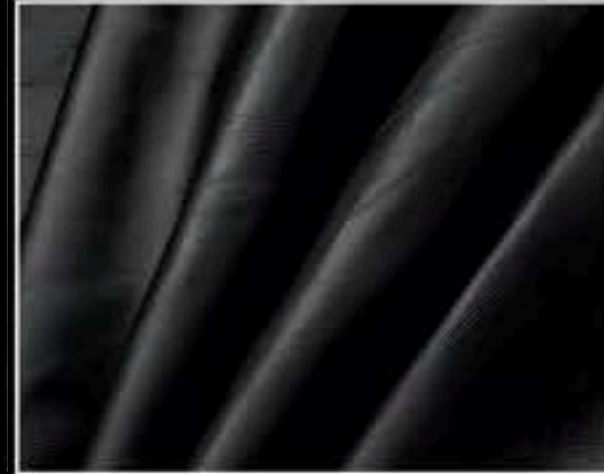
**// ARMOR**

**// SUBVERSION**

# MATERIAL\_MATRIX



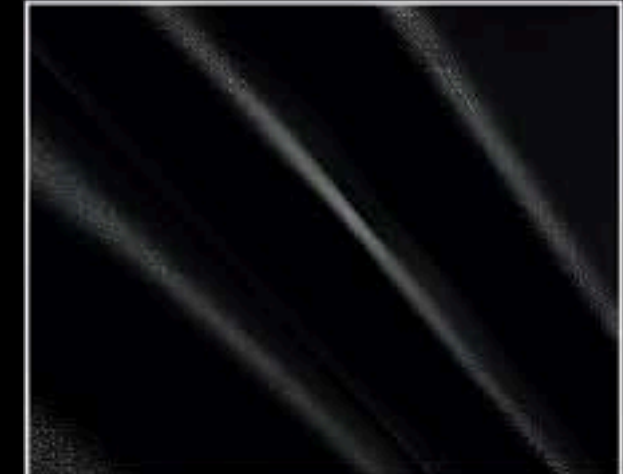
Reptile-Embossed  
Bovine Hide



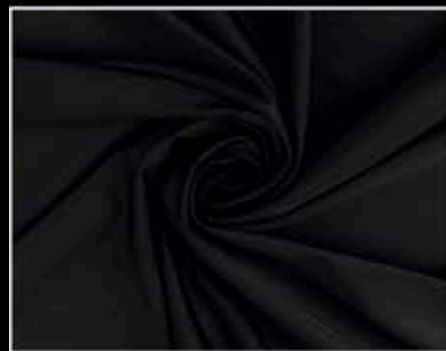
Supple  
Nappa Leather



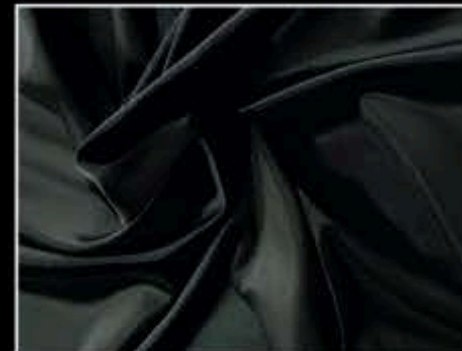
Sheared  
Calfskin



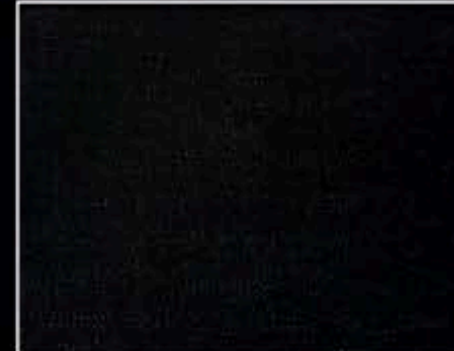
Structural  
Full-Grain Calfskin



Heavy-Duty  
Ballistic Nylon



Silk-Blend  
Velvet



14oz Rigid  
Cotton Denim



Heavyweight  
Melton Wool



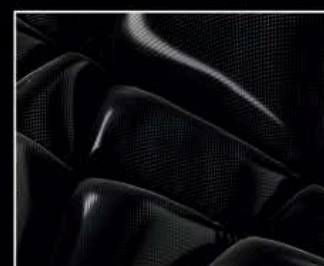
High-Twist  
Tropical Wool



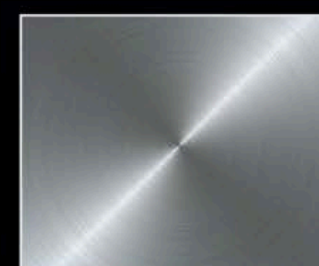
Mercerized  
Cotton Poplin



High-Density  
Insulation



Raw Natural  
Latex Elastomer



Stainless  
Steel Alloy



Engineered  
Technical Cotton



High-Stretch  
Elastane Blend

# ACCESSORIES\_01



**ACC\_01** // Tactical\_Exo\_Visor



**HW\_01** // Aereodynamic\_Alloy\_Rivet



**ACC\_02** // The\_Monolithic\_Shell



**HW\_02** // Oversized\_Alloy\_Rivet

# ACCESSORIES\_02



**ACC\_03** // Articulated\_Exo\_Gauntlet



**ACC\_04** // Auxagon\_Tactical\_Half-Glove



**ACC\_05** // The\_High-Laced\_Exoskeleton



**ACC\_06** // Low-Profile\_Kinetic\_Tread





// MILAN\_26  
DEPLOYMENT  
[ FIELD\_TEST ]



# POLIMI x FIT NYC

## DIOR: HERITAGE REINTERPRETATION

An international creative collaboration  
reinterpreting Dior's archival identity.

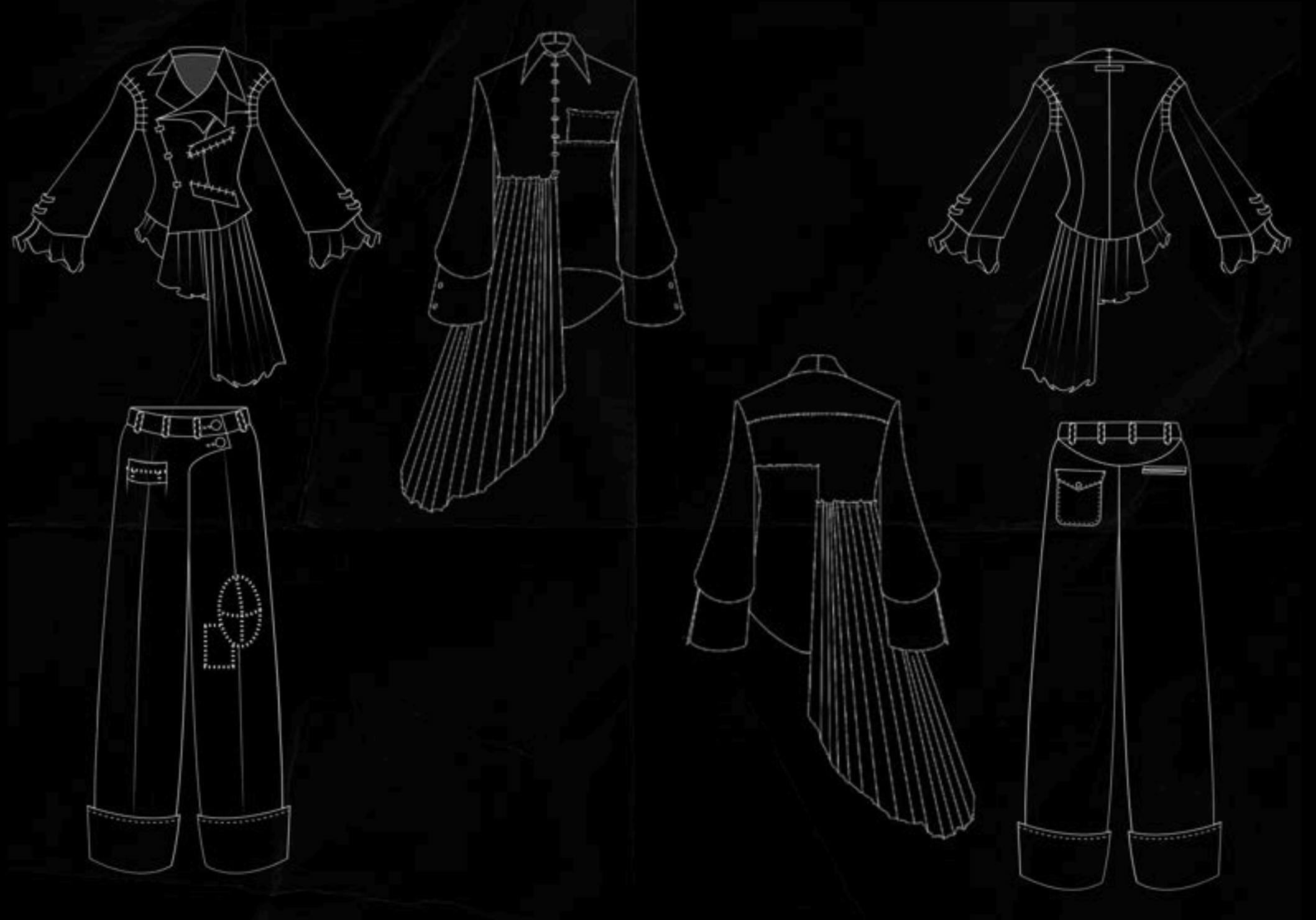
Historical tailoring codes broken down into new,  
aggressive volumes. We extracted Dior's  
foundational silhouette rules and translated them  
into rigid, modular outerwear.





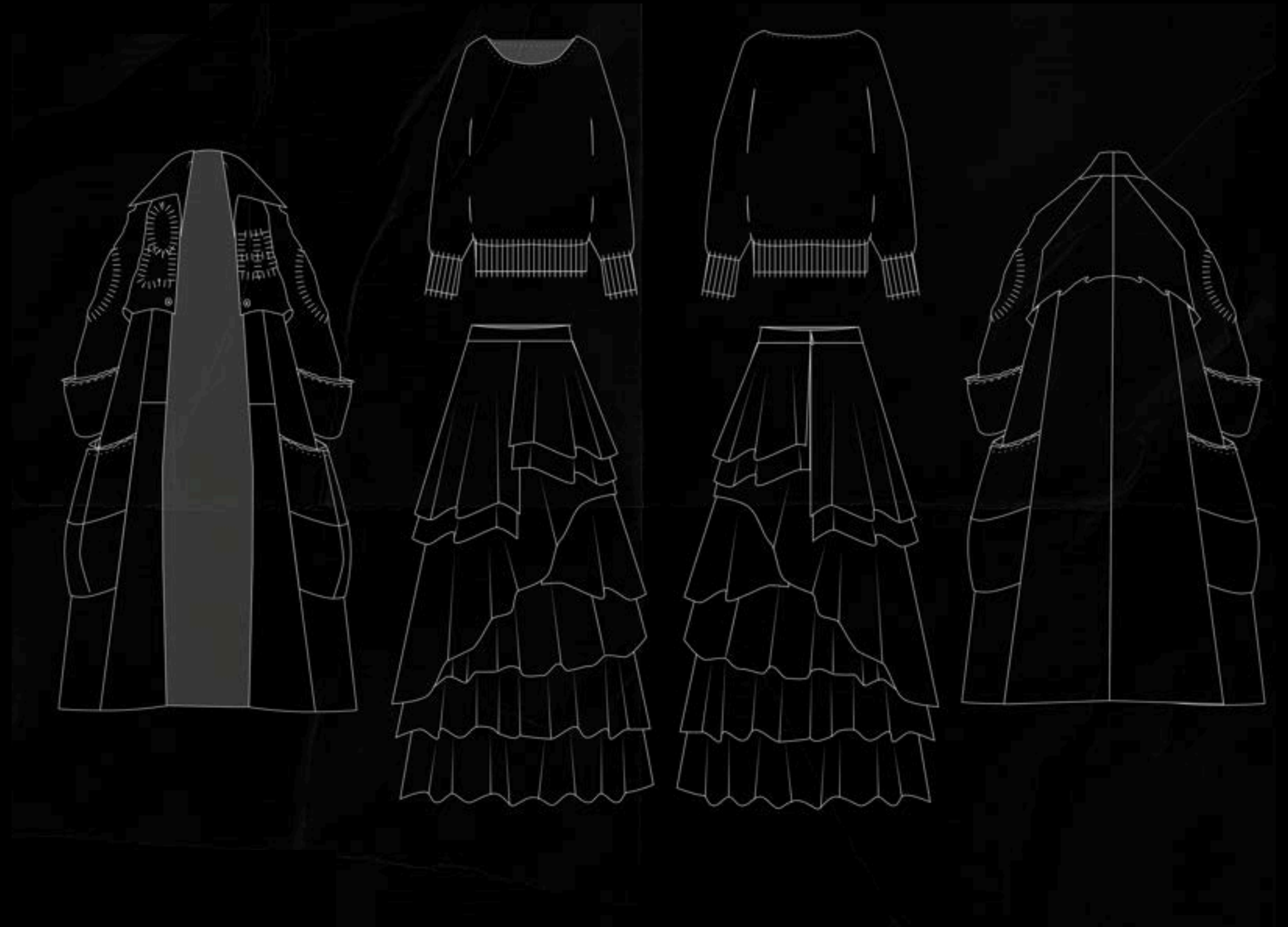
**LOOK\_01 //**

**// STRUCTURAL HYBRID**



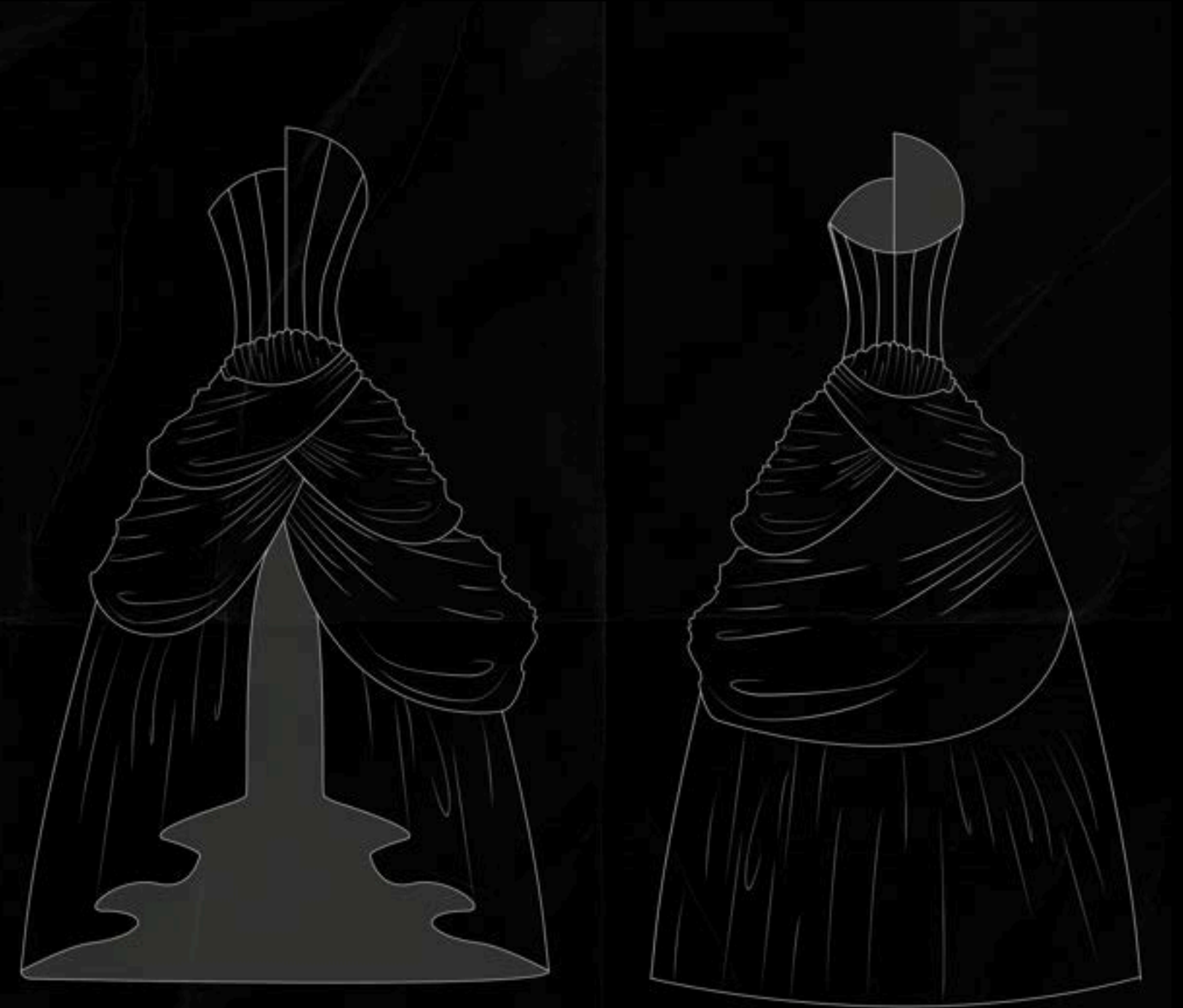
**LOOK\_02 //**

**// OVERSIZED VOLUMES**

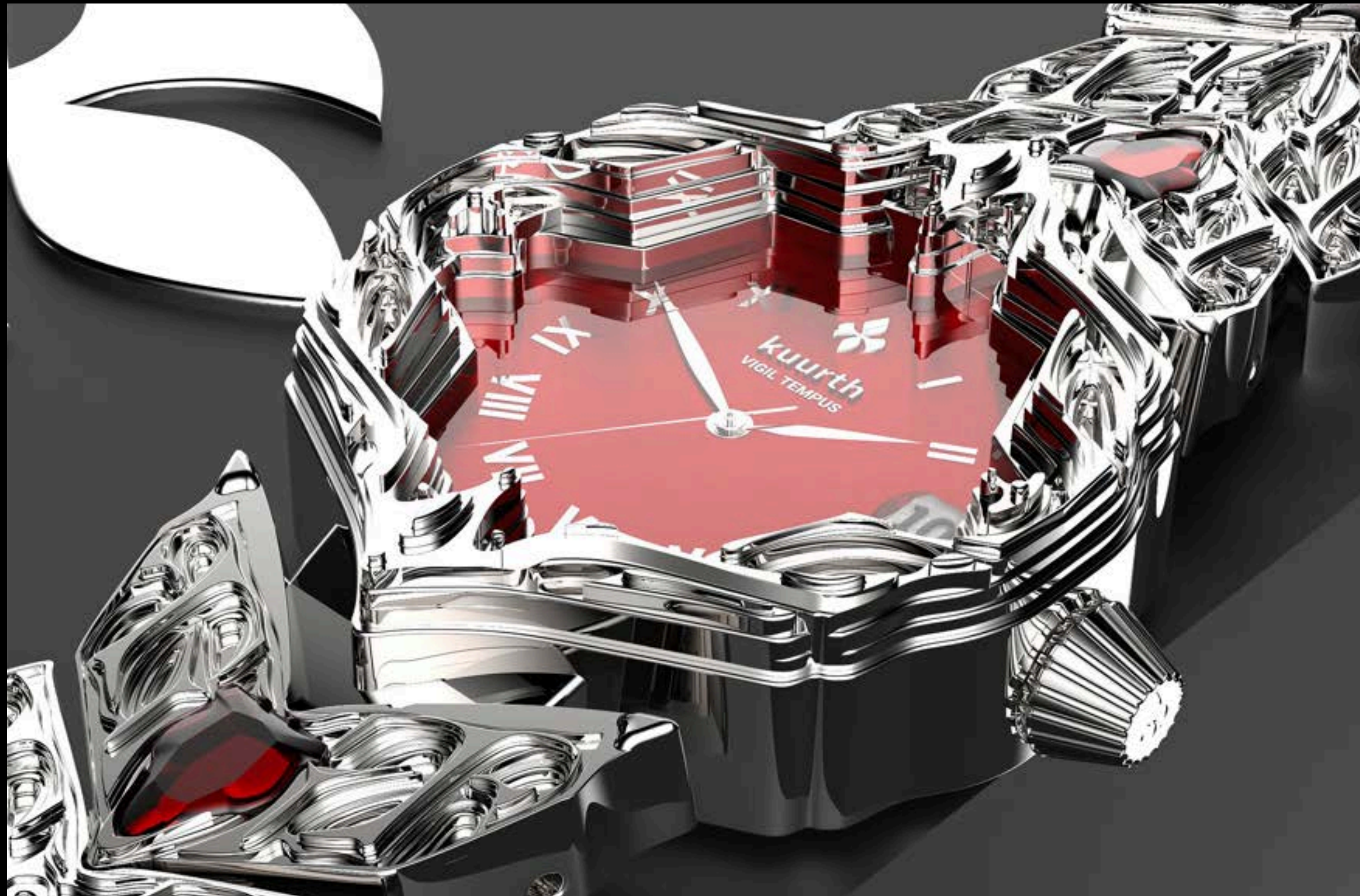


**LOOK\_03 //**

**// ARCHITECTURAL DRAPE**



# 3D REVERSE ENGINEERING // KUURTH



**SUBJECT //**  
Kuurth Vigil Tempus.

**SOFTWARE //**  
OnShape & KeyShot.

**GEOMETRY //**  
Complex concave &  
convex surfacing.

**VISUALIZATION //**  
Precise material  
light refraction.

**EXECUTION //**  
High-fidelity  
digital replica.

# SURFACE ENGINEERING & VISUALIZATION

Parametric surface modeling and high-precision digital recreation.

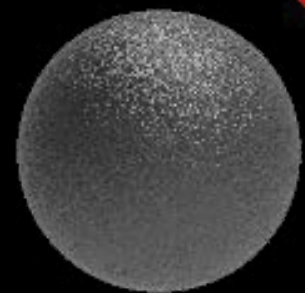
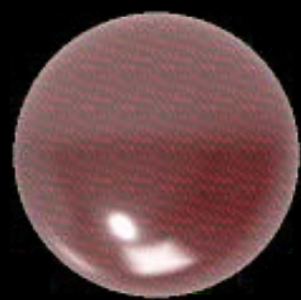
Built component by component in OnShape, mapping complex organic curves and compound fillets.

Rendered in KeyShot using physically accurate indices of refraction for machined steel and sapphire crystal.

Anodized  
Crimson  
Alloy



Precision  
Ruby



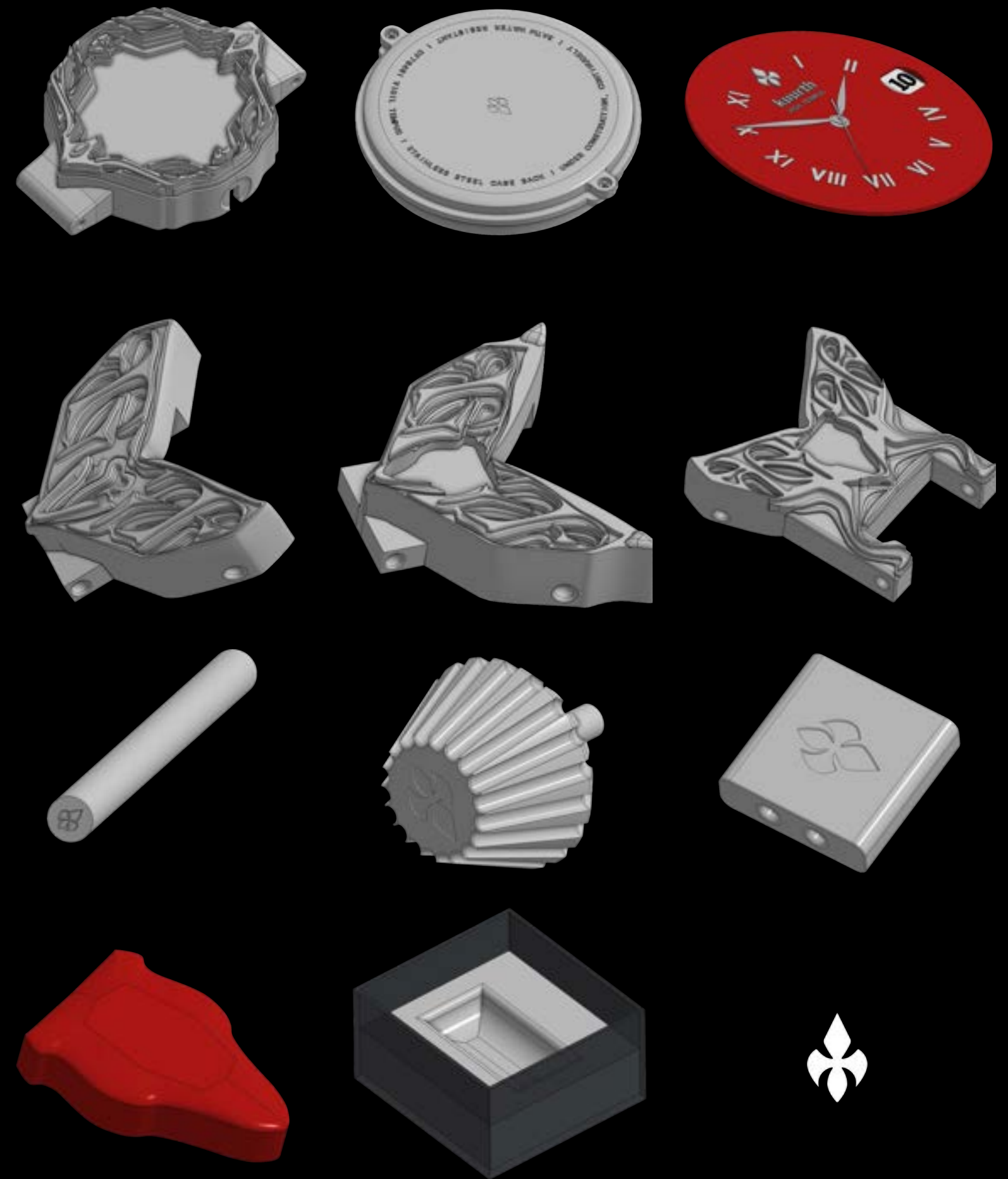
Sandblasted  
Polymer

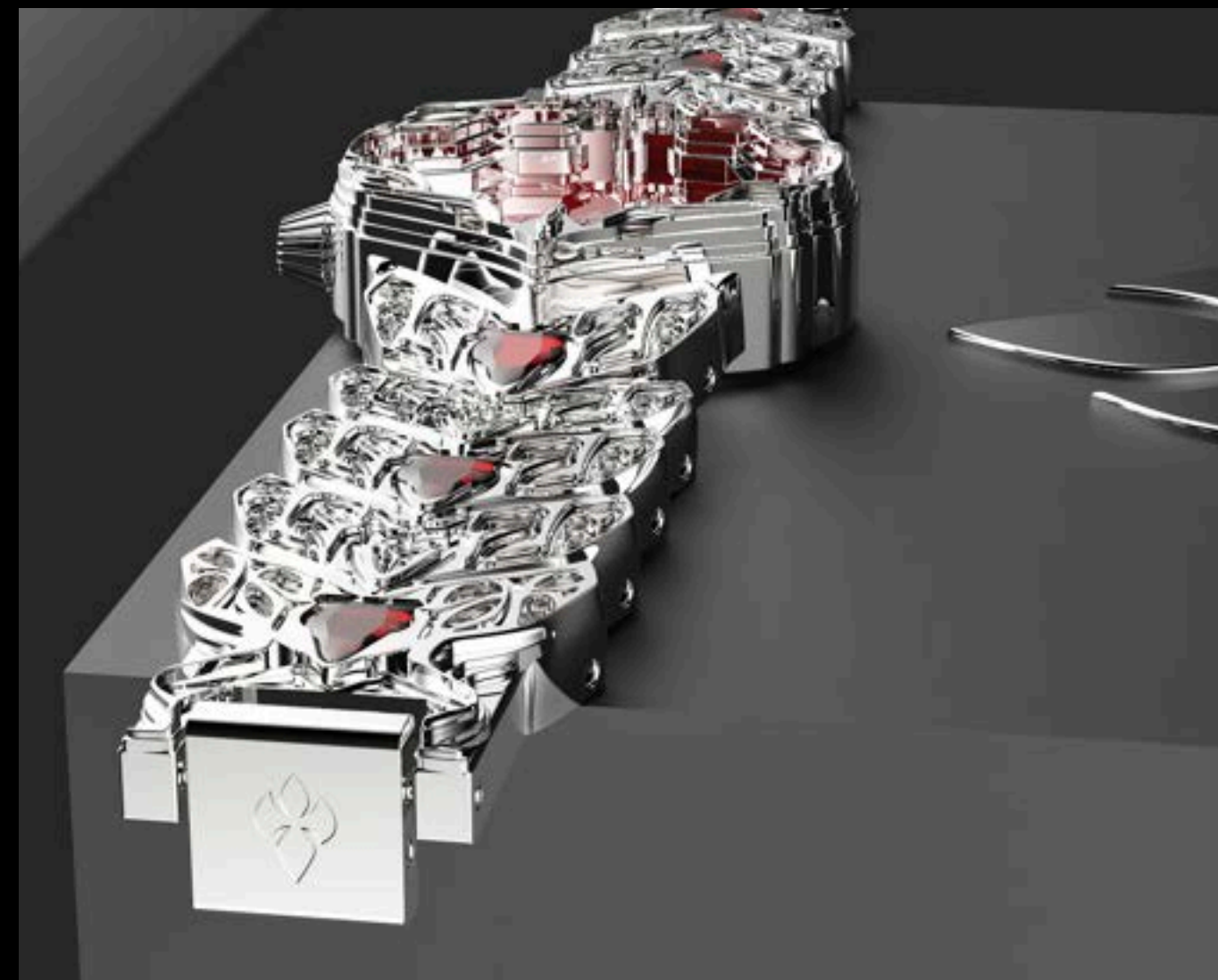


Machined 316L  
Stainless Steel



Anti-Reflective  
Sapphire Crystal





**SURFACE\_INSPECTION // 360\_ANALYSIS**

# PATTERN ENGINEERING // LECTRA SUITE

Translating structured volumes into precise 2D production geometry.

Every panel and cutline is calculated to construct a rigid, perfectly symmetrical shell.

Engineered for technical accuracy and real-world manufacturing, turning architectural concepts into functional outerwear.



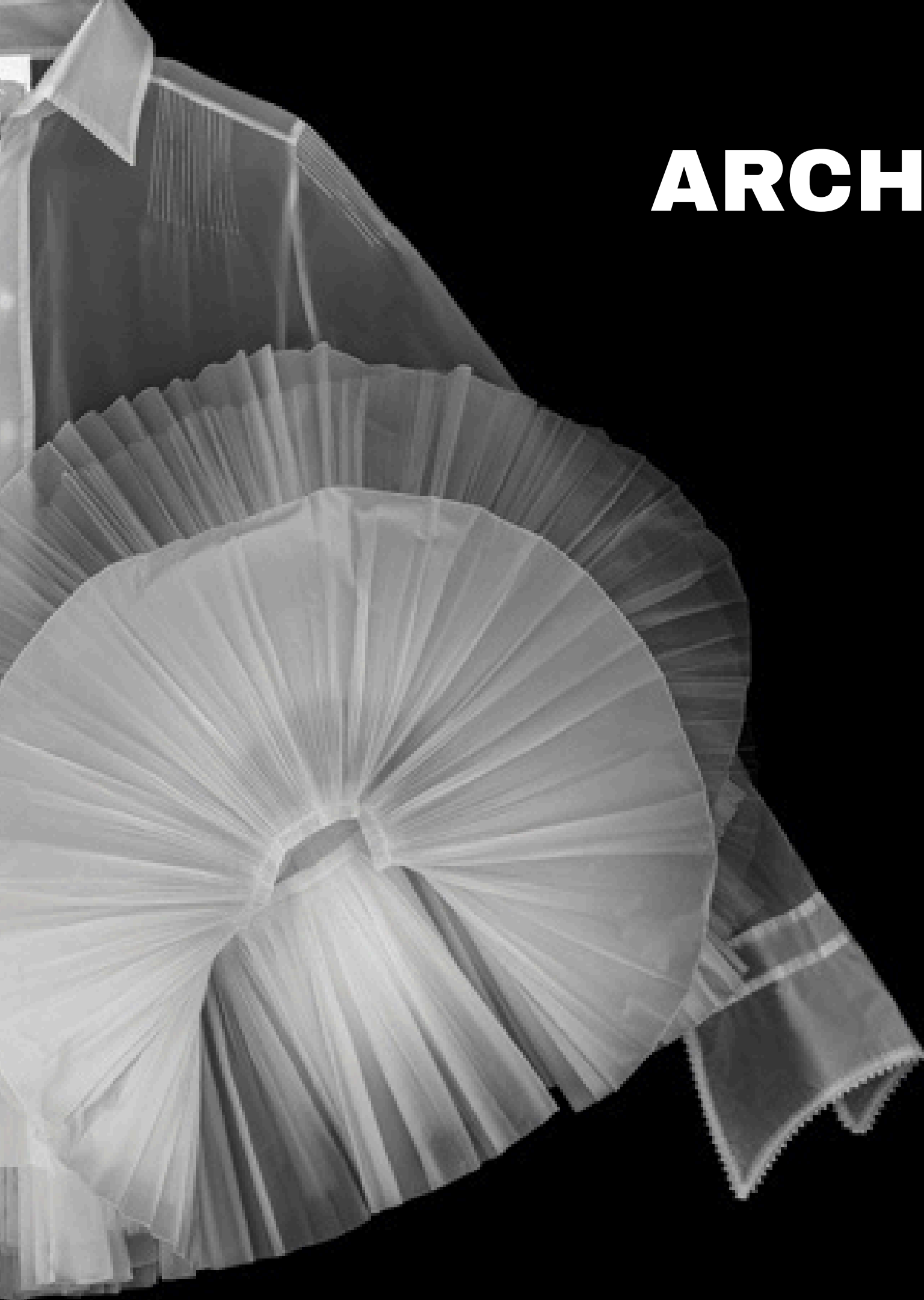
# 01\_ASHEN REFINEMENT

Physical deconstruction, editorial direction,  
and visual research.

Archival tailoring studies combined with  
digital brand curation.

This phase tracks the anatomical  
re-engineering of the Ferré shirt, tactile  
leatherwork, and the Aracnibag prototype.



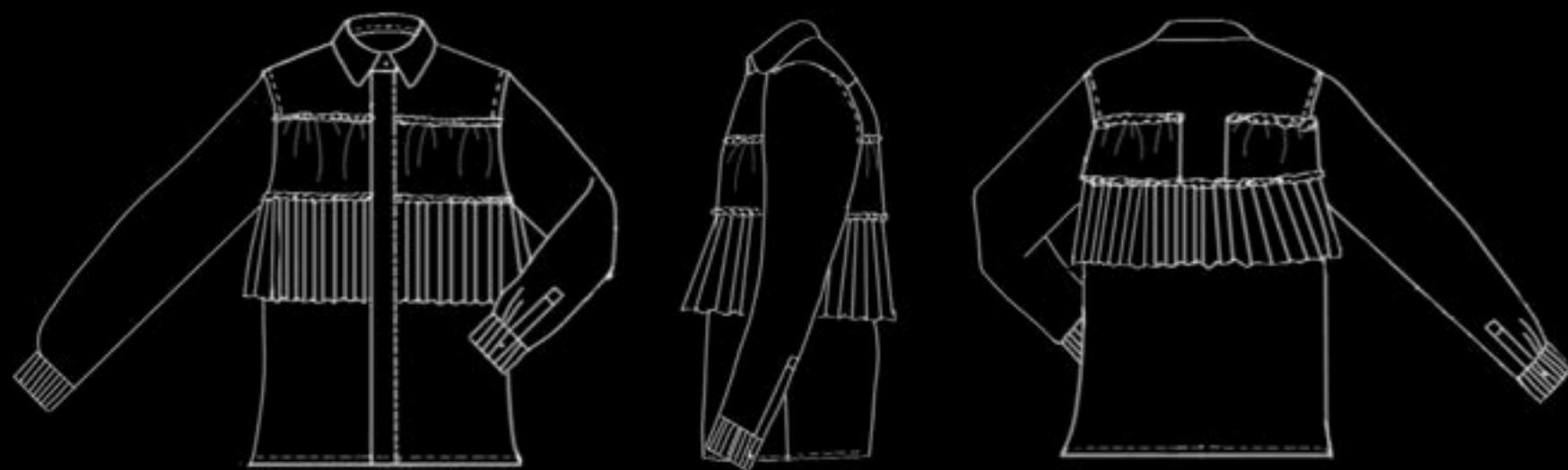


# **ARCHIVAL REINTERPRETATION // GIANFRANCO FERRÉ**

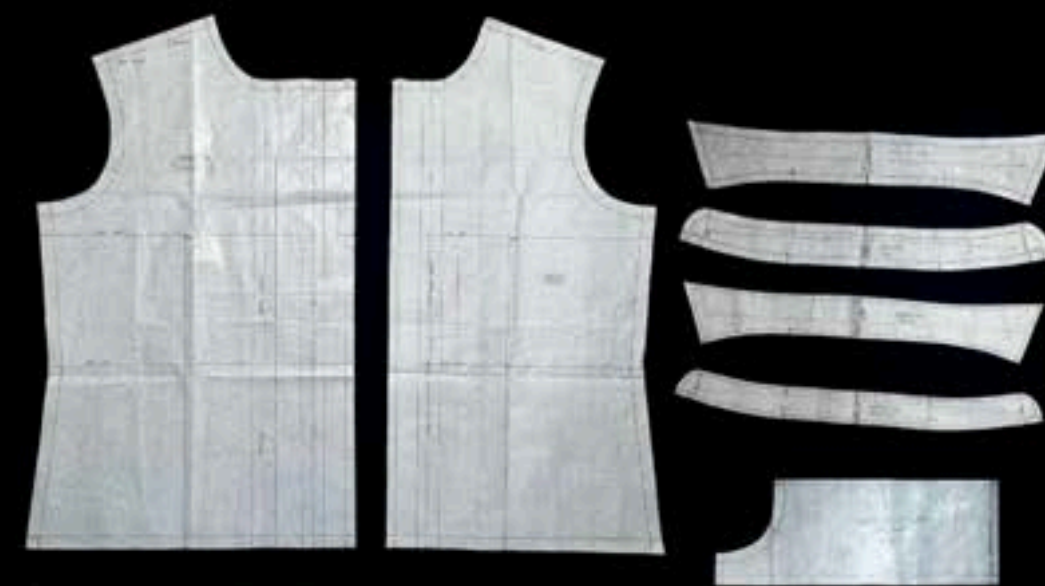
Dissecting the architecture of the iconic "Milonga" shirt.

Historical pleating techniques analyzed and reworked  
into a rigorous, sculptural volume.

Verified through exact flat-pattern extraction and  
muslin toile fittings.



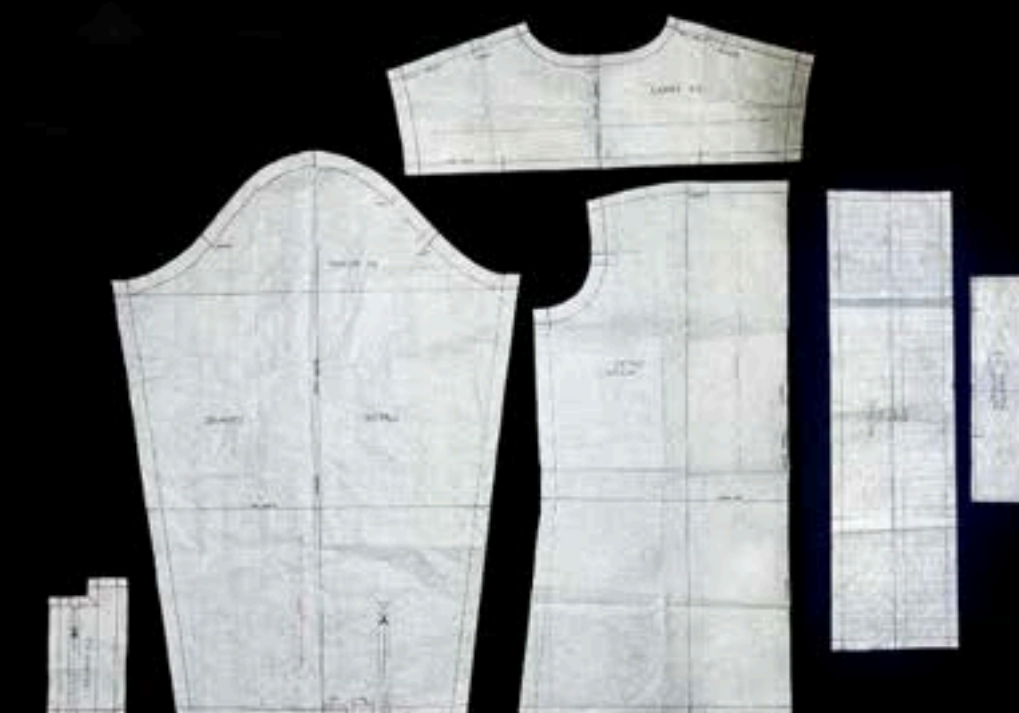
**[ 01 ]** // Structural\_Sketch



**[ 02 ]** // Toile\_Prototype



**[ 03 ]** // Flat\_Pattern\_Extraction



# PATTERN DRAFTING // BODICE & SKIRT

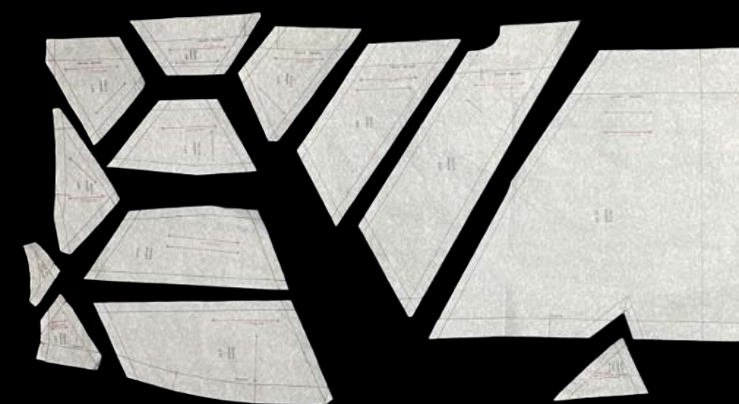
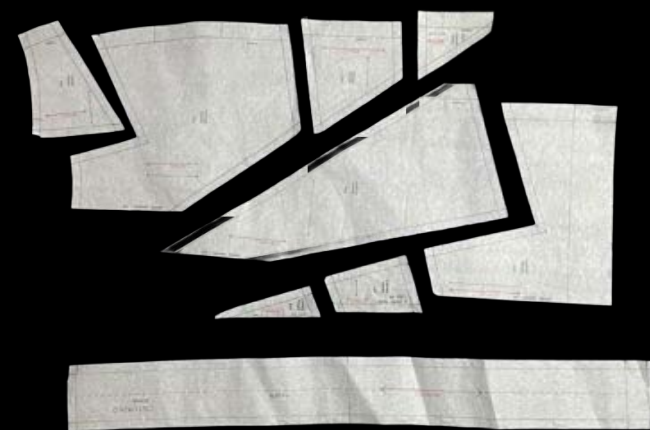
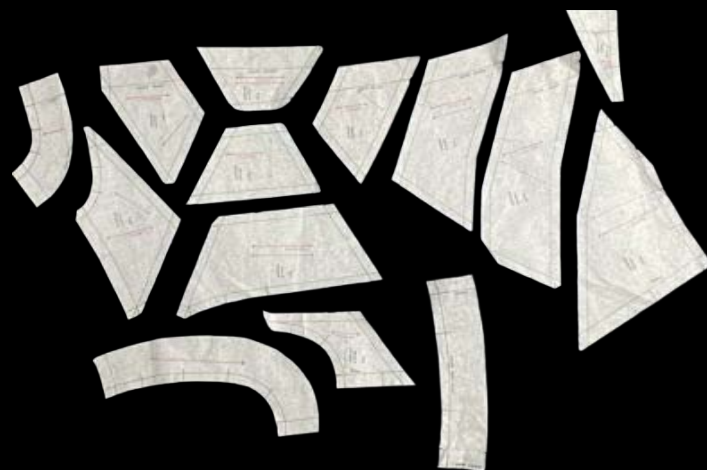
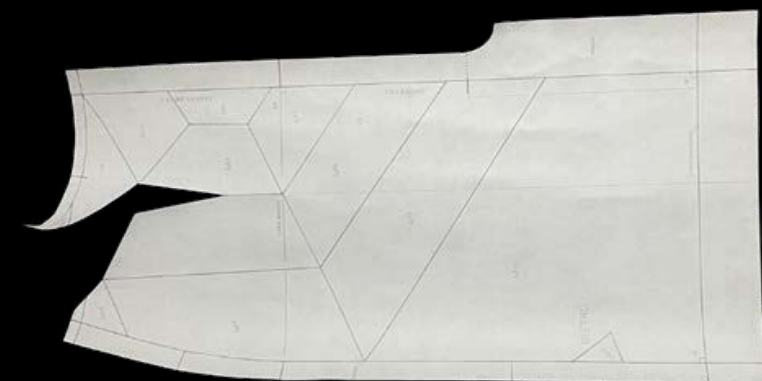
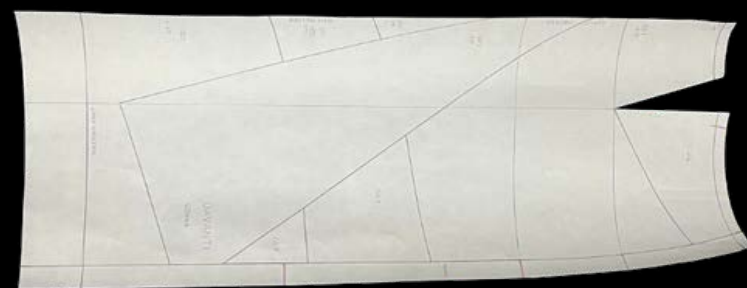
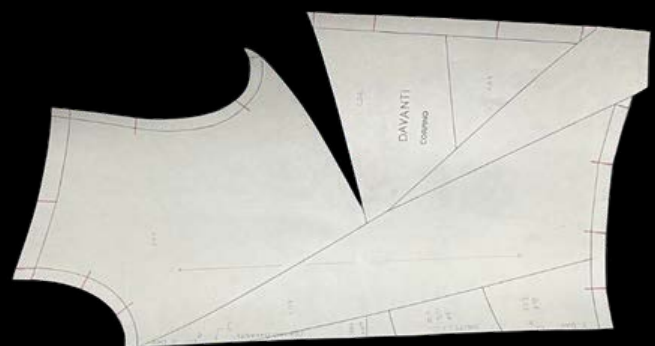
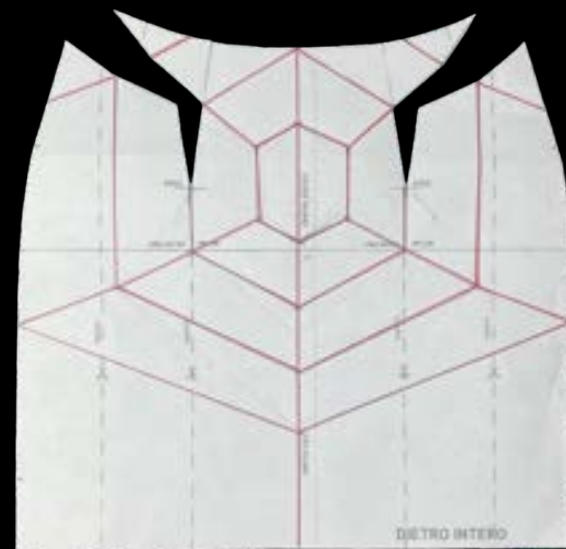
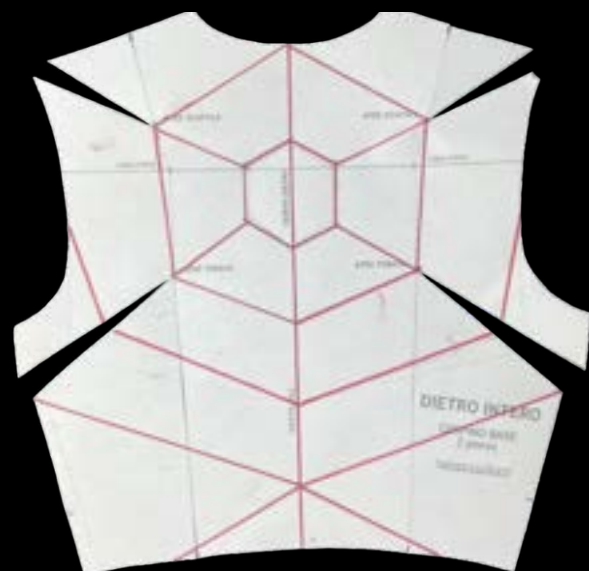
Translating structured body-mapping into precise geometric panels.

Exploring graphic optical lines through tailored construction and rigid proportions.



[ 01 ] // Physical\_Prototype\_Fitting

[ 02 ] // 2D\_Vector\_Drafting



**[ 01 ]** // Front\_Bodice

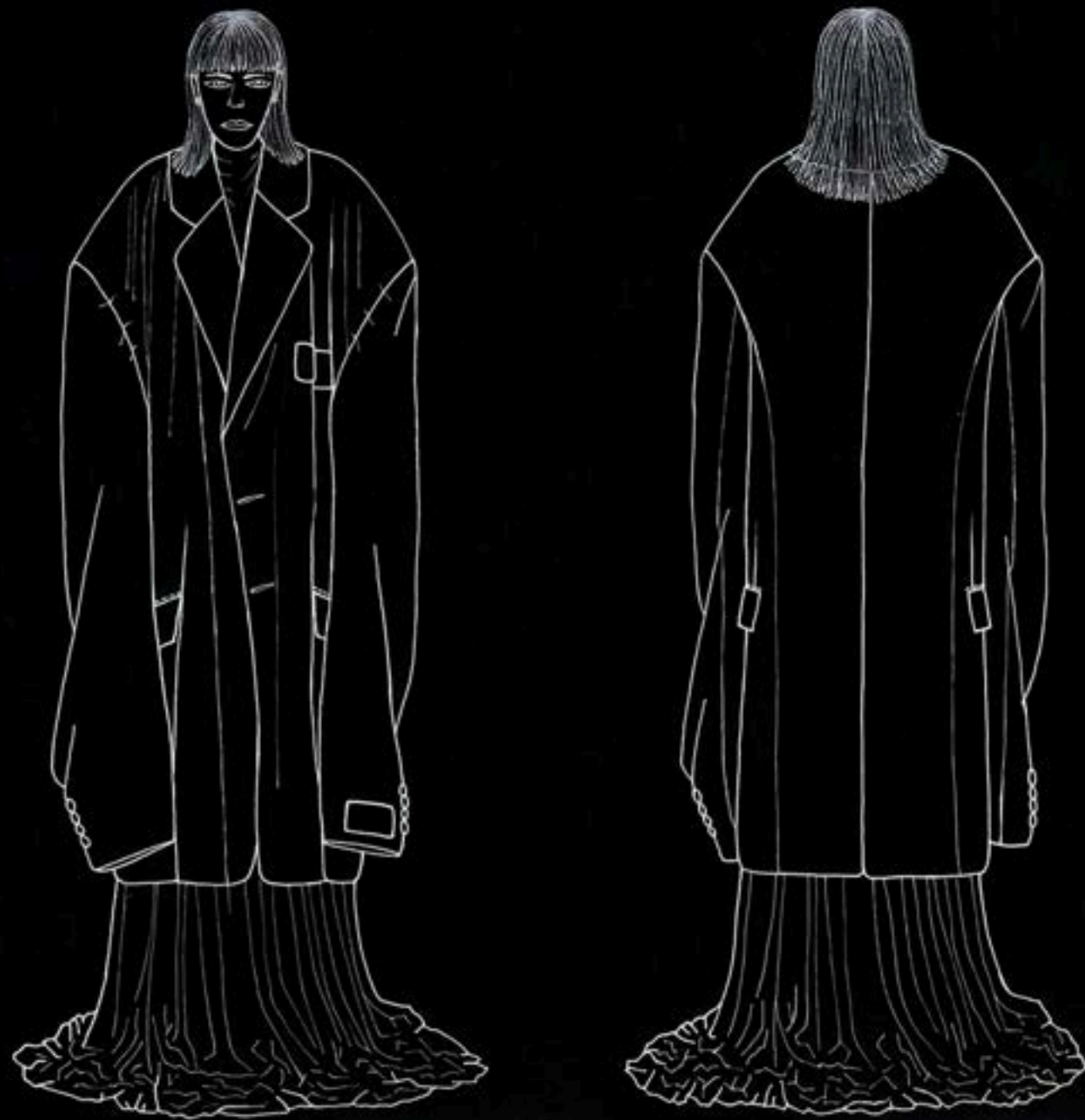
**[ 02 ]** // Back\_Bodice

**[ 03 ]** // Front\_Skirt

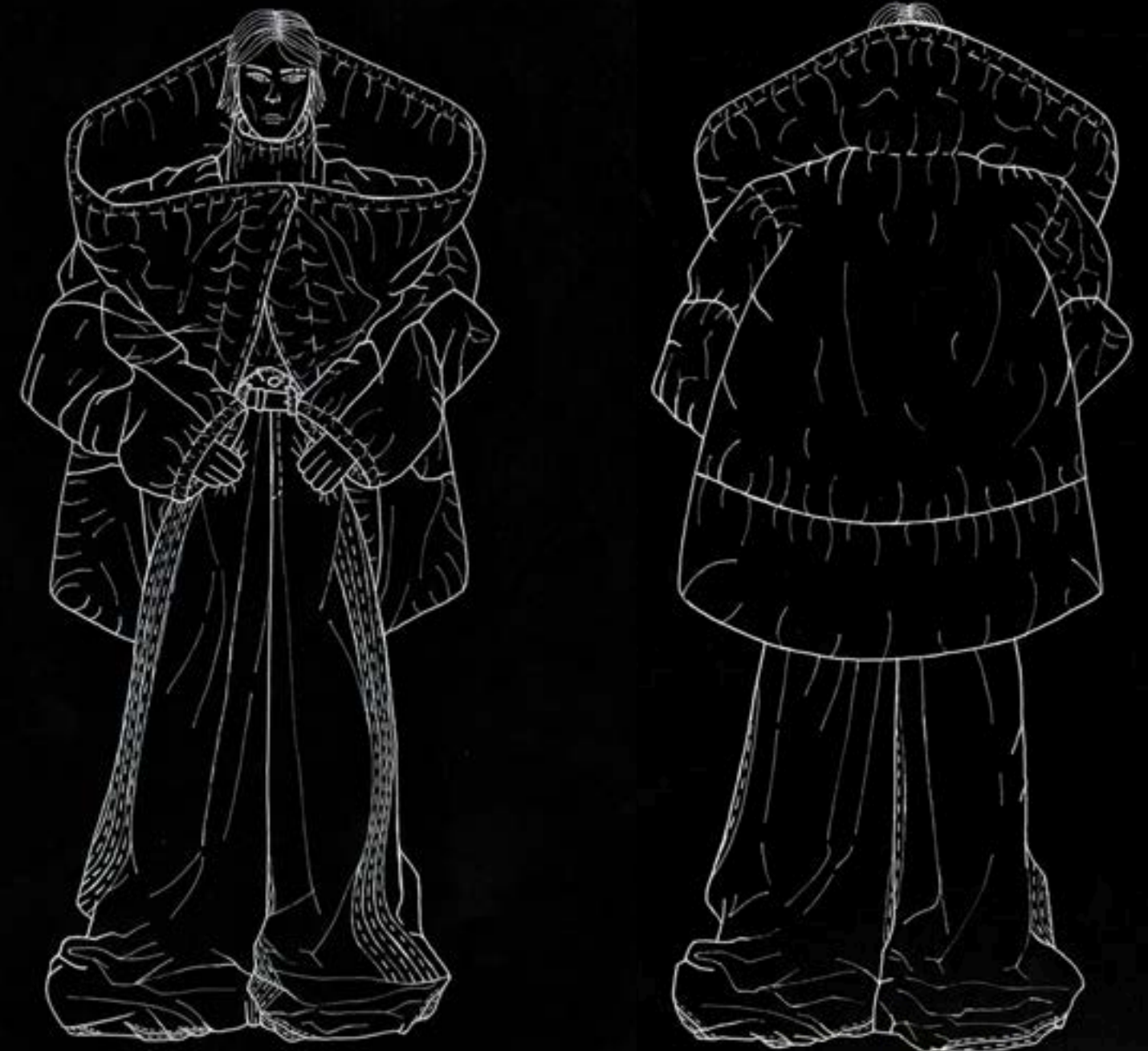
**[ 04 ]** // Back\_Skirt

# DESIGN\_DEVELOPMENT // SILHOUETTE\_EXPLORATION

[ 01 ] // Front\_Back\_Volumes



[ 02 ] // Front\_Back\_Volumes



# EDITORIAL DIRECTION // CHROMATIC DISTORTION

An imagery study inspired by Guy Bourdin's visual universe.

Investigating saturated color blocking, physical posture, and surrealist framing.



# VISUAL SEMIOTICS // CAMPAIGN NARRATIVE

Subversive advertising study  
exploring graphic contrast and  
typographic messaging.

Stripping back visual clutter to focus  
on garment symbolism and  
brand attitude.



# VISUAL NARRATIVE & SUBCULTURAL RESEARCH

Curation of subcultural iconography and cinematic hyper-reality.

Isolating Y2K automotive tropes and street culture to build the visual foundation for brand identity.



# EXODIA

## // DIGITAL BRAND ARCHITECTURE

Speculative year-2100 retail architecture.

Designed the core UI/UX environment  
to house cyber-futuristic 3D garments, linking  
experimental patternmaking to functional  
digital commerce.



# ARACNIBAG // BIOMORPHIC ACCESSORY

Anatomical geometry transformed  
into rigid carry equipment.

A biomorphic backpack structure  
derived from cardiovascular  
organs and arachnid  
exoskeletons.

Designed as functional,  
wearable armor.



**VISUAL\_REFERENCE**  
// Heart\_Inspiration



# 00\_ROUGH GENESIS

Manual drafting, structural observation, and spatial geometry.

The foundational groundwork: freehand architectural perspective, light analysis on stone monuments and physical volumes, and component breakdowns of hardware.

Direct observation before CAD translation.



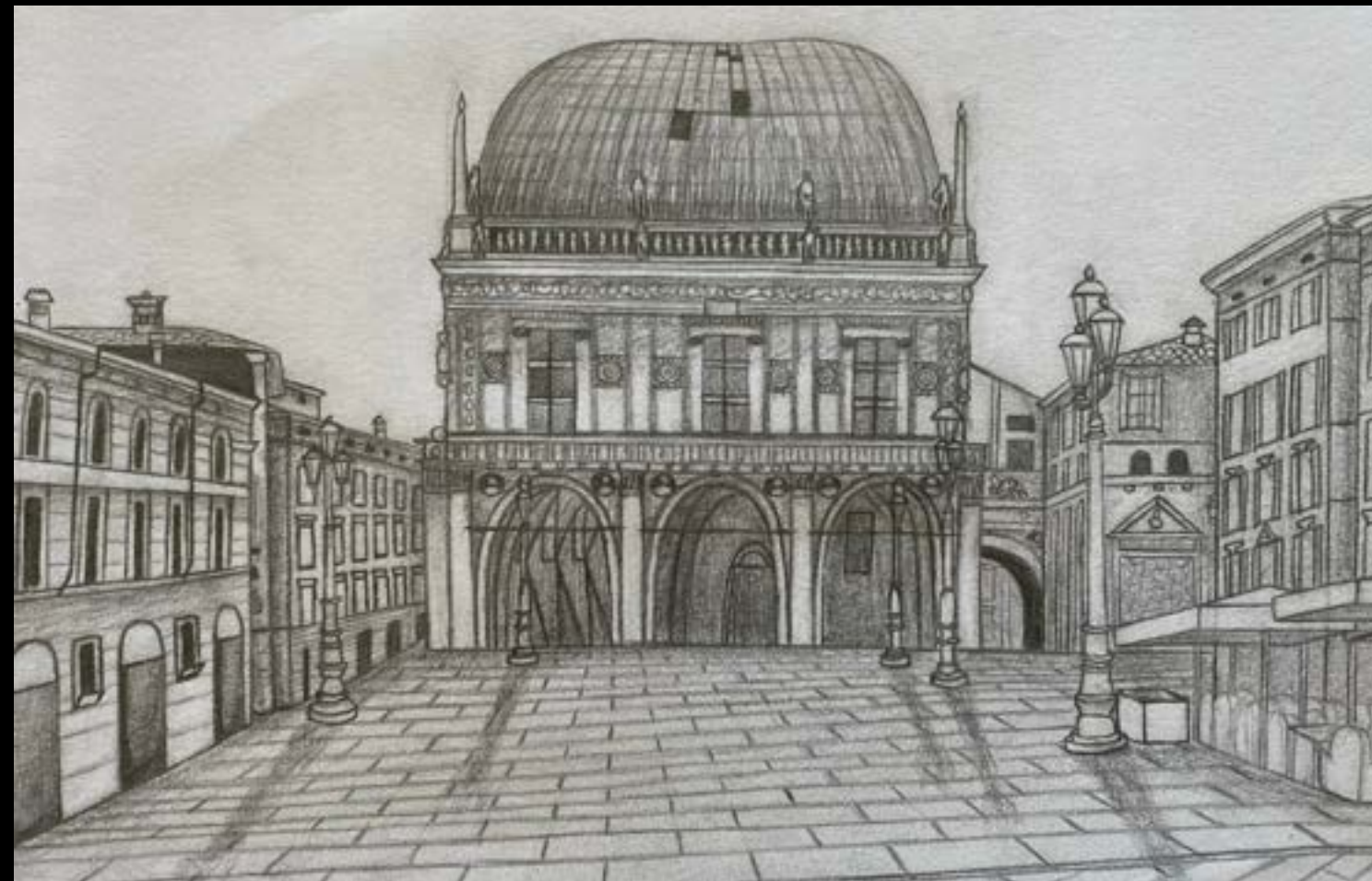
# ARCHIVE\_A0 // ANALOG SPACE & VOLUME

Strict observational analysis.

Mastering architectural perspective, spatial depth, and volumetric tension through pure manual execution.



[ 01 ] // Volume\_Study



[ 02 ] // Loggia\_Square\_Perspective



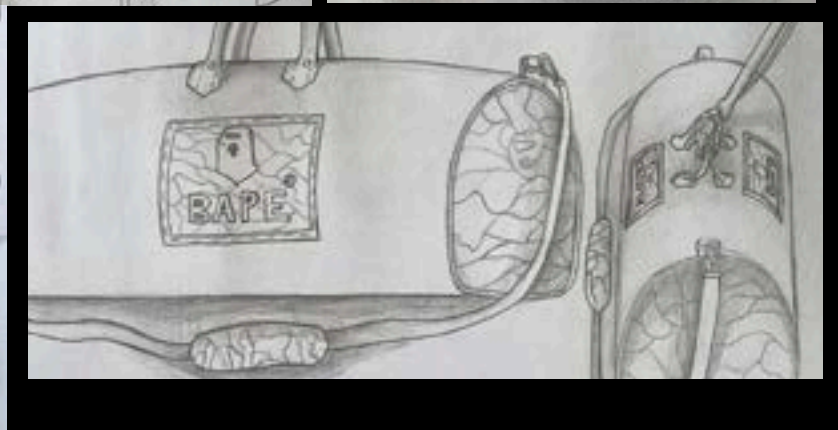
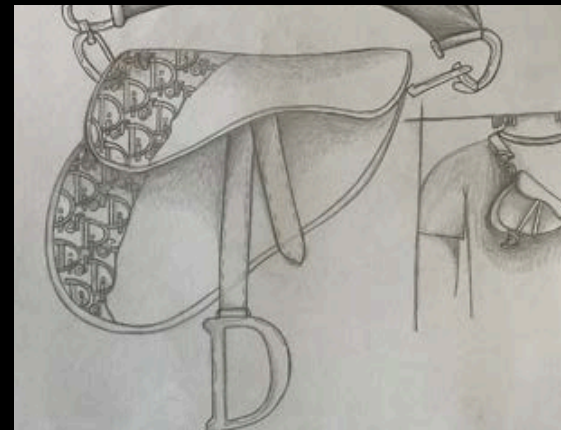
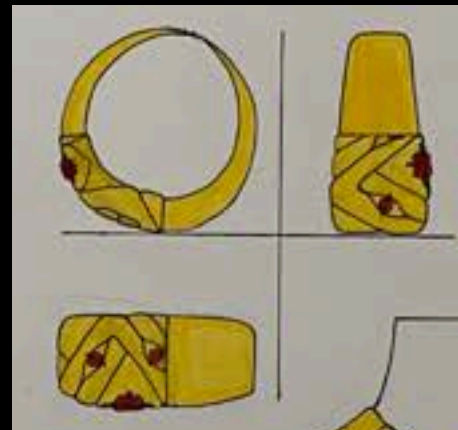
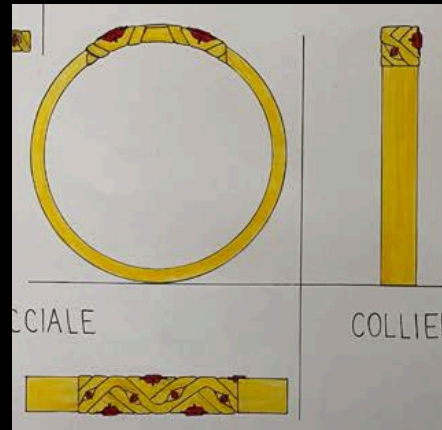
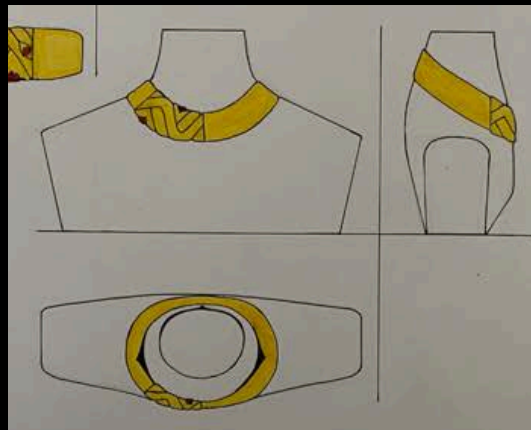
[ 03 ] // War\_Memorial\_View

# ARCHIVE\_A1 // COMPONENT DECONSTRUCTION

Analytical sketching and structural breakdown of luxury hardware and leather goods.

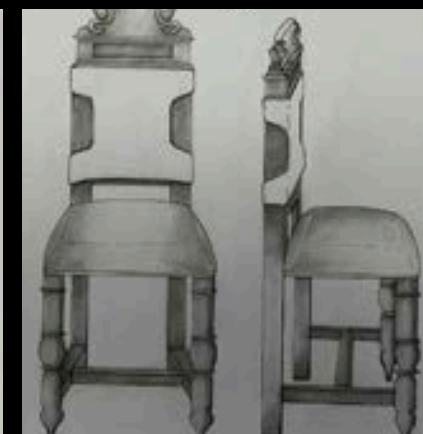
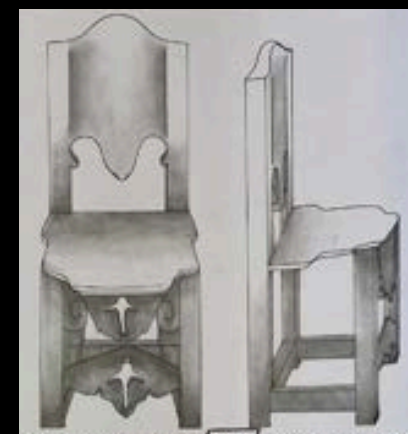
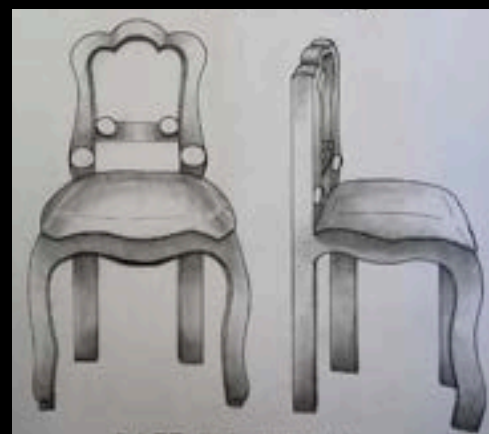
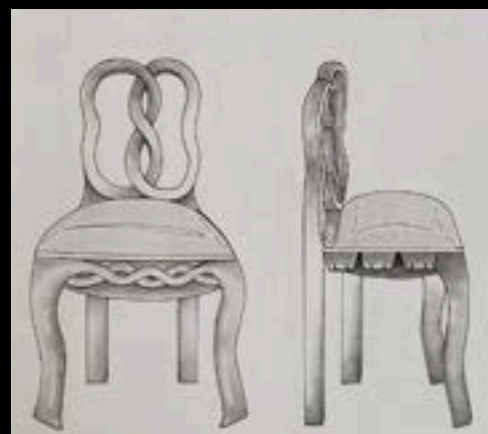
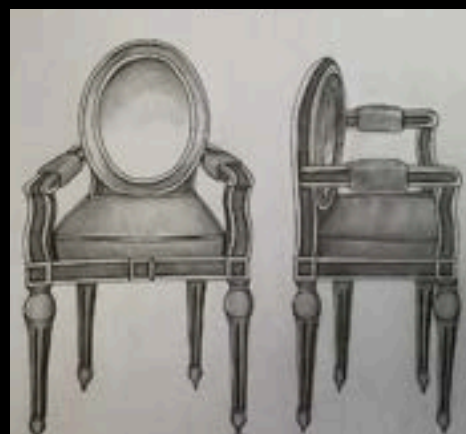
Isolating product architecture and functional detailing.

bags

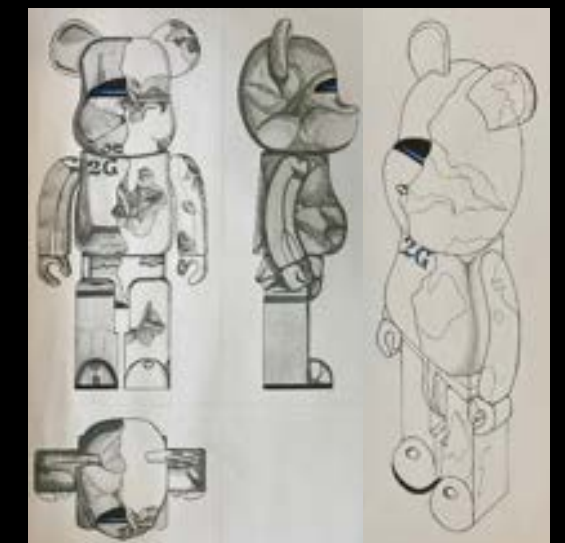


[ 01 ] // Hardware\_Detailing

[ 03 ] // Leather\_Goods\_Analysis



[ 02 ] // Furniture\_Evolution

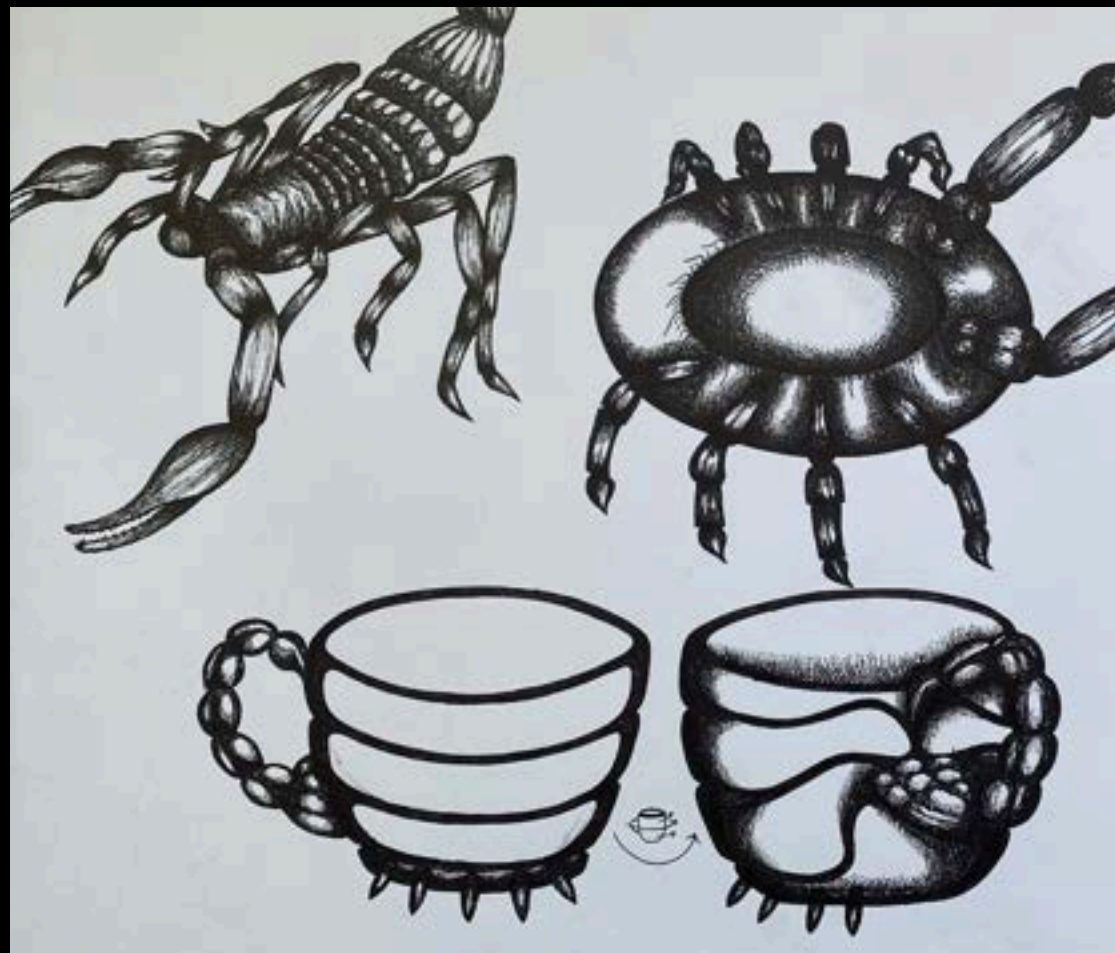


[ 04 ] // BearBrick

# ARCHIVE\_A2 // BIOMORPHIC EXPLORATION

Early conceptual research merging zoological anatomy with object design.

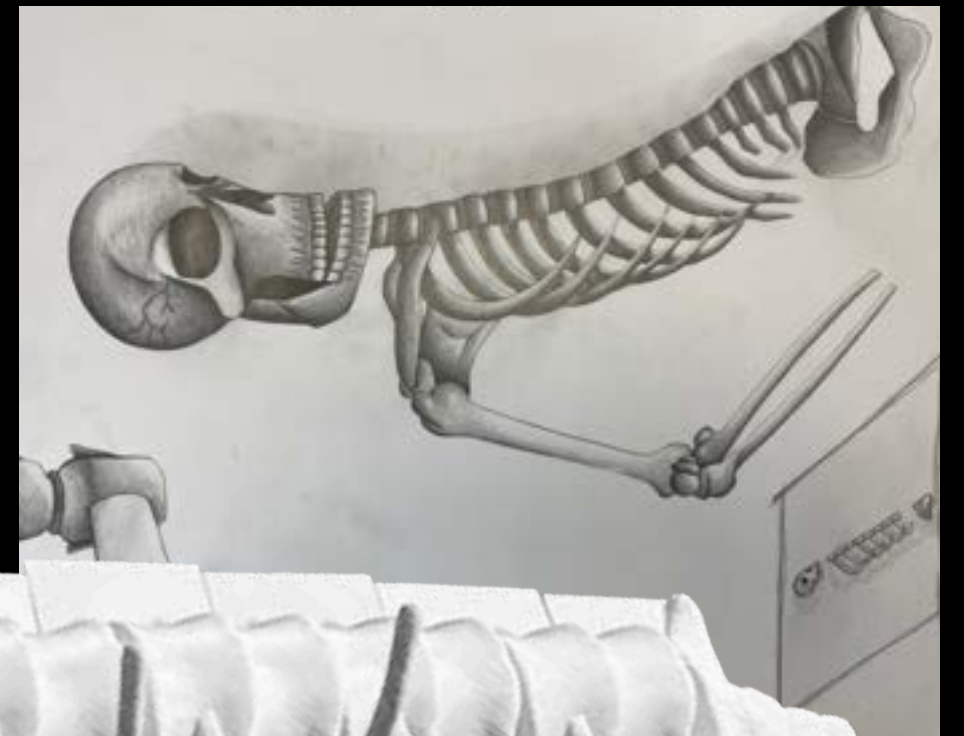
The theoretical foundation for the Aracnibag, bridging the gap between biological form and structural hardware.



[ 02 ] // Zoological\_Morphology



[ 01 ] // Anatomical\_Hanger



[ 03 ] // Cosmic\_Lamp

# APPENDIX // VISUAL REFERENCES AND ARCHIVAL SOURCES

## GENERAL DISCLAIMER

All third-party imagery and digital artwork in this portfolio are used strictly for academic research and visual prototyping. All original intellectual property belongs to the respective creators.

## MOODBOARDS (7, 15, 31)



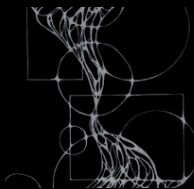
Images used in these moodboards and conceptual research pages are for visual inspiration and research purposes only. All credits and rights belong to their respective owners.

## 02\_RELENTLESS STRUCTURE



Author: Unknown (Digital Archive Study)  
Note: Visual reference for geometric volumes, asymmetry, and avant-garde silhouettes.

## 01\_ASHEN REFINEMENT



Author: Unknown (Sourced via Web Archive)  
Note: Abstract line drawing used to map fluid networks against rigid geometric shapes.



Brand & Author: Gianfranco Ferré, F/W 2005  
(Courtesy of the G. Ferré Research Center Archive)  
Note: Historical study dissecting the architectural construction and pleating of the iconic Milonga shirt.



Brand: Charles Jourdan, 1979  
Author: Guy Bourdin (© The Guy Bourdin Estate)  
Note: Sourced from an advertising campaign; color blocking, surrealist composition, and body postures.

## EXODIA BRAND (PAGE 32)



- 01-Brand: Argue Culture (Start Exceed End), 2024  
Note: Faux-Fur Patchwork Wide-Leg Leather Trousers.
- 02-Brand: Argue Culture (Start Exceed End), 2024  
Note: Hollow-Out Deconstructed Trousers & Harness Tees.
- 03-Brand: Argue Culture (Start Exceed End), 2024  
Note: Shoulder Pad Architectural Overcoat.
- 04-Brand & Author: Bernd Kroeber, 2024  
Note: Architectural Suit Sculpture.
- 05-Brand: Weiræn, 2024  
Author: Wei Ran (Photography by Boyang Hu)  
Note: Collection 02, 3D Printed Fluid Liquid-Chrome Sculpture.



- 01-Brand & Author: Juun.J, 2022  
Note: Architectural Boxy Hoodie & Wide Leather Trousers.
- 02-Brand & Author: Juun.J, 2023  
Note: Oversized Liquid-Leather Bomber & Cargo Set.
- 03-Brand & Author: Rick Owens, 2021  
Note: 'Gethsemane' Hooded Tactical Ensemble.
- 04-Brand: Balenciaga, 2021  
Author: Demna Gvasalia  
Note: Custom Faceless Haute Couture Gown.
- 05-Brand: Courrèges, 2022  
Author: Nicolas Di Felice  
Note: Mylar Metallic Hooded Dress.

## 00\_ROUGH GENESIS



Author: Giusy Amoroso (Marigoldff)  
Note: 3D cybernetic artwork used as biomorphic design inspiration for structural hardware and Y2K liquid metal textures.



Author: Science Photo Library - Sciepro / 3Dmedisphere  
Note: 3D digital illustration of the human spine used as a primary structural reference to analyze symmetry and organic engineering.

**// ARCHIVE\_CLOSED**

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