



Wearable Technology HCI Fashion Design | Unisex Fashion | Phygital Design

NUOQI SHEN

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RCA (Royal College of Art), London UK | MA Fashion Sep 23- Aug 24 | Distinction

RMIT University, Melbourne Australia | Bachelor of Fashion Design (Honours) Feb 19- Nov 22 | First Class Honours

BREATHE THE FUTURE

Collection Time : July 2024
RCA Graduate Project work



FIELD:

Wearable Technology
HCI
Creative Coding
Phygital Fashion
CGI Digital Film
VFX

In a speculative future where clean air is a rare commodity, this project uses a digital parkour-focused fashion film to showcase a groundbreaking air pollution-responsive smart suit.

Designed to protect outdoor athletes from severe air pollution and allergens through smart air purification technology, the suit also features an integrated digital twin using mixed reality (MR) to reflect real-time sensor data, dynamically indicating pollution levels.

The project serves as a powerful public health message, emphasizing the critical role of adaptive technology in safeguarding clean air and raising awareness about environmental challenges.

MOOD BOARD

SPECULATIVE DESIGN

POLLUTION

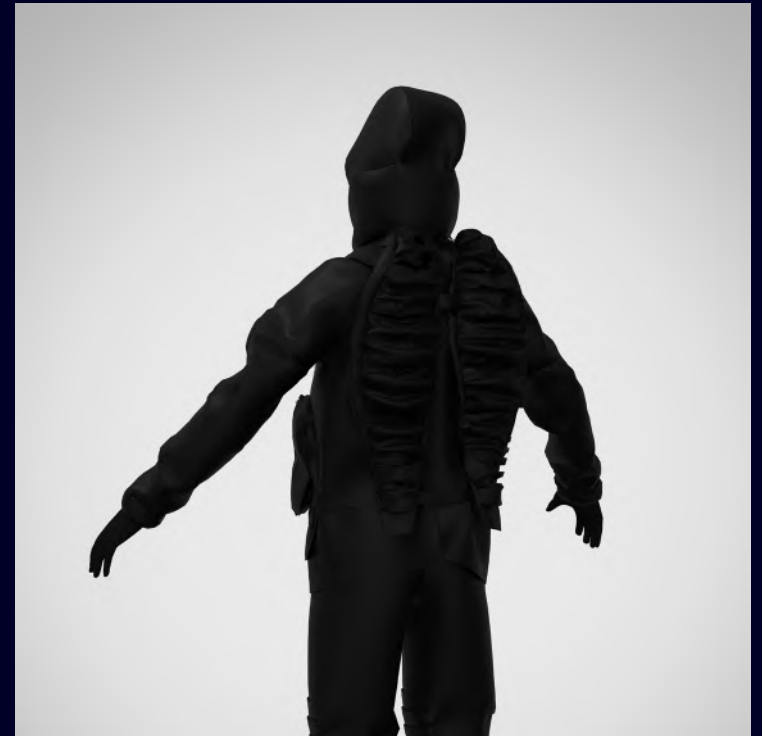
PUBLIC HEALTH

PARKOUR

ACTIVISM

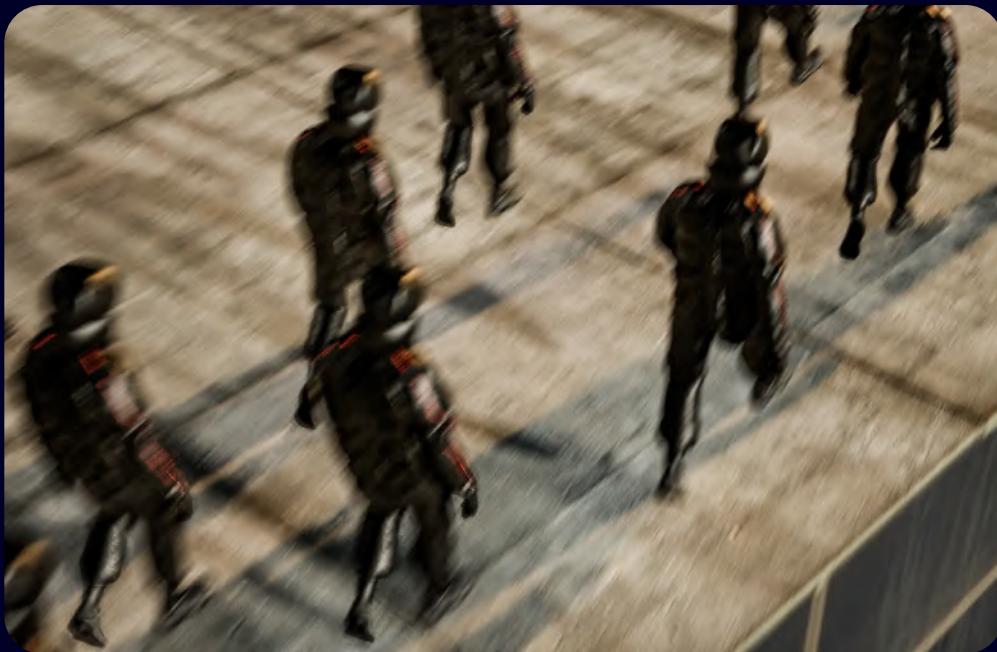


DIGITAL PROTOTYPING



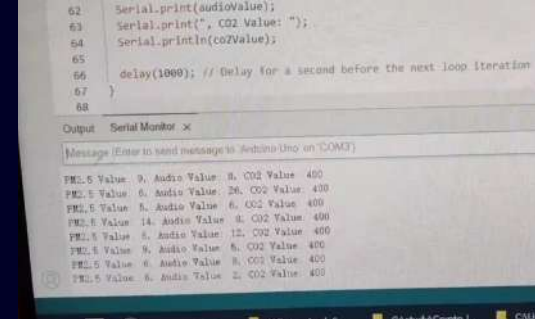
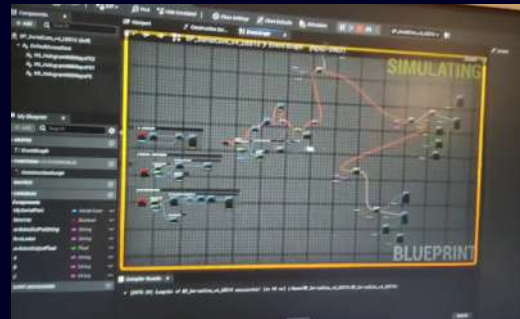
Material: Tyvek with PU coating

CINEMATIC HIGHLIGHTS



Full Film: <https://youtu.be/3CmETTBxWnE?si=yfDziaSn82BtpEOY>

CREATIVE CODING (Arduino IDE, Microcontroller, Arduino to UE5 Serial Communication)



MARS ODYSSEY

Collection Time : Dec 2022
RMIT University BA Hours Year 4 work



WORK ACHIEVEMENT:

- Victorian Premier's Design Awards 2023 Finalists
- iD International Emerging Designer awards 3rd Prize Winner
- Melbourne Fashion Week 2022 Student Runway Showcased

"Mars Odyssey" is a world-making future fashion collection that envisions a lifestyle on Mars 2050s and proposes possibilities for more sustainable and technology-engaged fashion. New spacesuits, wearable oxygen gear, and life support devices provide alternatives for outdoor human activities on Mars, as well as opportunities for bold self-expression. The inflatable and thermochromic design prototypes propose potential functions such as thermal insulation, temperature regulation, air storage, radiation protection, and abrasion resistance, while also combining style and innovation. The collection engages multiple sustainability innovation methods, including zero-waste design, upcycling, streamlined production in CLO 3D, and using biodegradable materials throughout the collection.

RESEARCH

COMMUNITY OF PRACTICE

SPECULATIVE DESIGN
DESIGN FICTION
WORLD-MAKING
FUTURISM
OUTDOOR



Gareth Pugh SS2010



Eucy McRae 2020

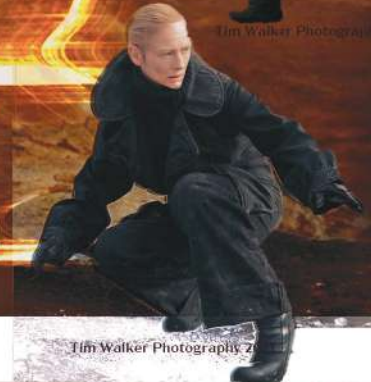
Gareth Pugh FW2010



NASA Neighbourhood Earth Exhibition 2022



NASA Neighbourhood Earth Exhibition 2022



Tim Walker Photography 2



Tim Walker Photography



Elena Silvestrova 2012



Body Armour n.d.



Gareth Pugh SS2010



Fujiwara FW2010



NASA Neighbourhood Earth Exhibition 2022

Background Image: Blade Runner Movie

RENDERED LINE UP



Clo 3d Digital Prototyping

KEY MATERIALS



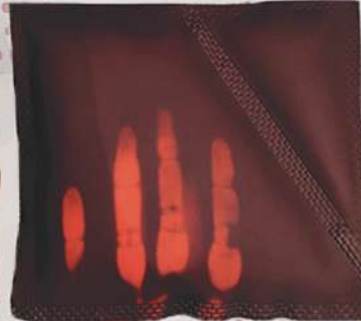
SONIC WELDING



THERMOCHROMIC



INFLATABLE



HEAT-BOND QUILTING



BIODEGRADABLE TPU



HERO IMAGES



3D SCENE RENDER & POST-PRODUCTION:NUOQI SHEN
MODEL: MARVIN, VIKRAM, PEGGY
PHOTOGRAPHER: AKE

RENDERED IMAGES



3D FASHION & SCENE RENDER & POST-PRODUCTION:NUOQI SHEN
CLO3D+CINEMA4D PRODUCTION

BY INDEPENDENT

Collection Time : Nov 2021
RMIT University BA Year 3 work



WORK ACHIEVEMENT:

- Top 10 finalist Melbourne Fashion Festival National Graduate Showcase 2022
- Global Design Graduate Showcase 2022 Shortlisted genderless category
- SAMSUNG Walk The Night Campaign Featured

This is a contemporary unisex outerwear collection with new high street and avant-garde influences that go beyond gender stereotypes and embrace the versatility of fashion through creative designs that fit people of all different body types, gender and size.

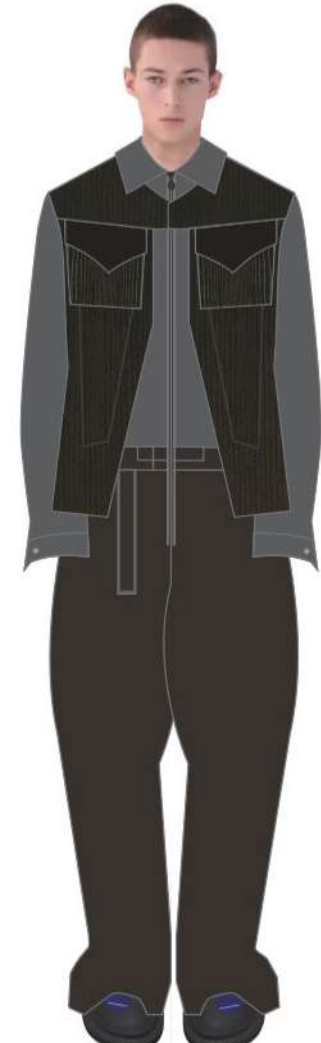
The collection emphasizes the practical and versatile performance of the designs and addresses sustainability. The designs involve zero waste pattern cutting techniques and offer one-size-fits-all and varied styling solutions through adjustable and detachable features. The designs are adjustable and transformative, allowing a fit on both male and female bodies and creating different styles that fit multiple occasions.

Research

This collection extracts inspirations from both Eastern and Western contexts and integrates a fusion of the East and the West in the designs. The river towns in my hometown (Hangzhou, China), Mao Jacket, western futurism architecture, and the use of architectural language in avant-garde fashion are the perspectives that inspire the designs.

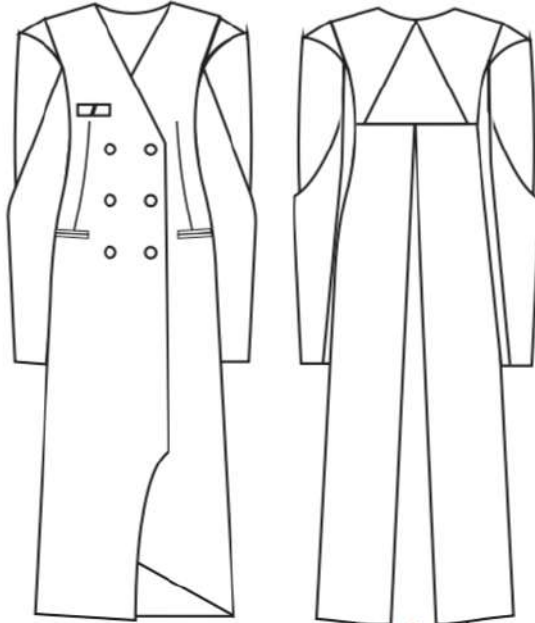


Line up Drawing



Tech Drawings

Look 3



More movement

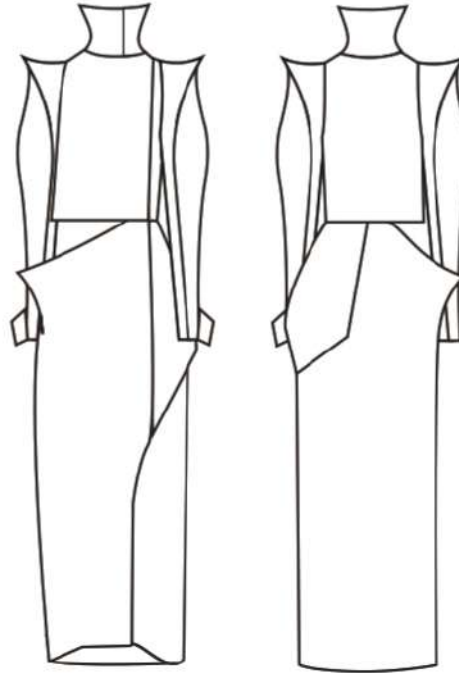


100% polyester

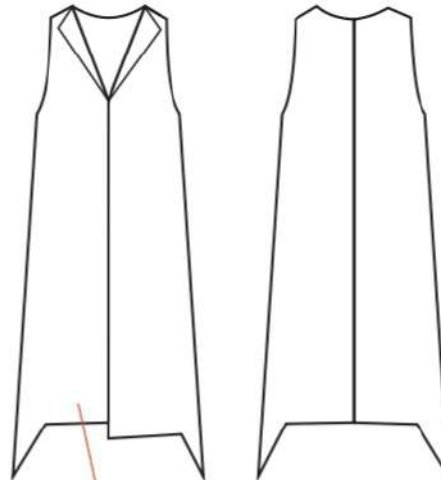


100% polyester

Look 4



100% polyester

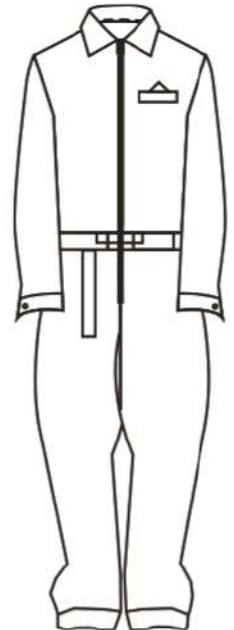
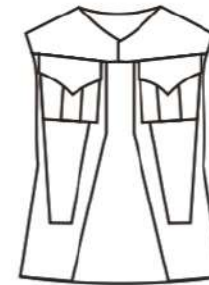
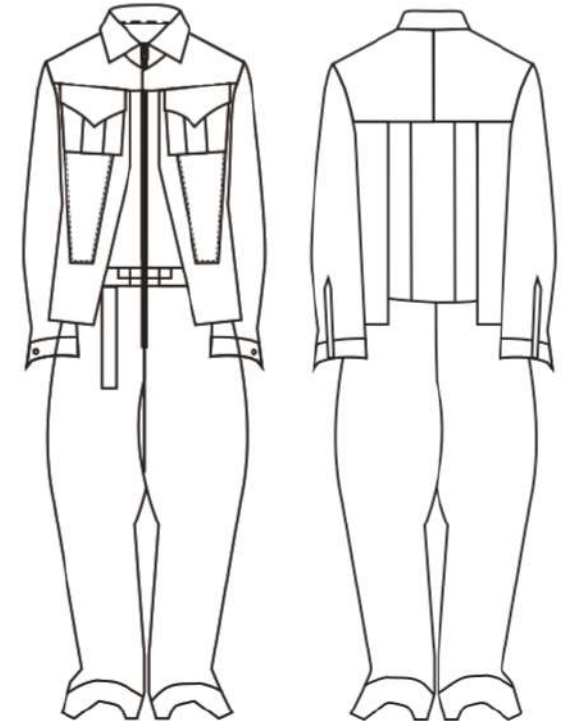


Reversible



100% polyester 100% organic cotton

Look 5



100% polyester



100% polyester

Photography

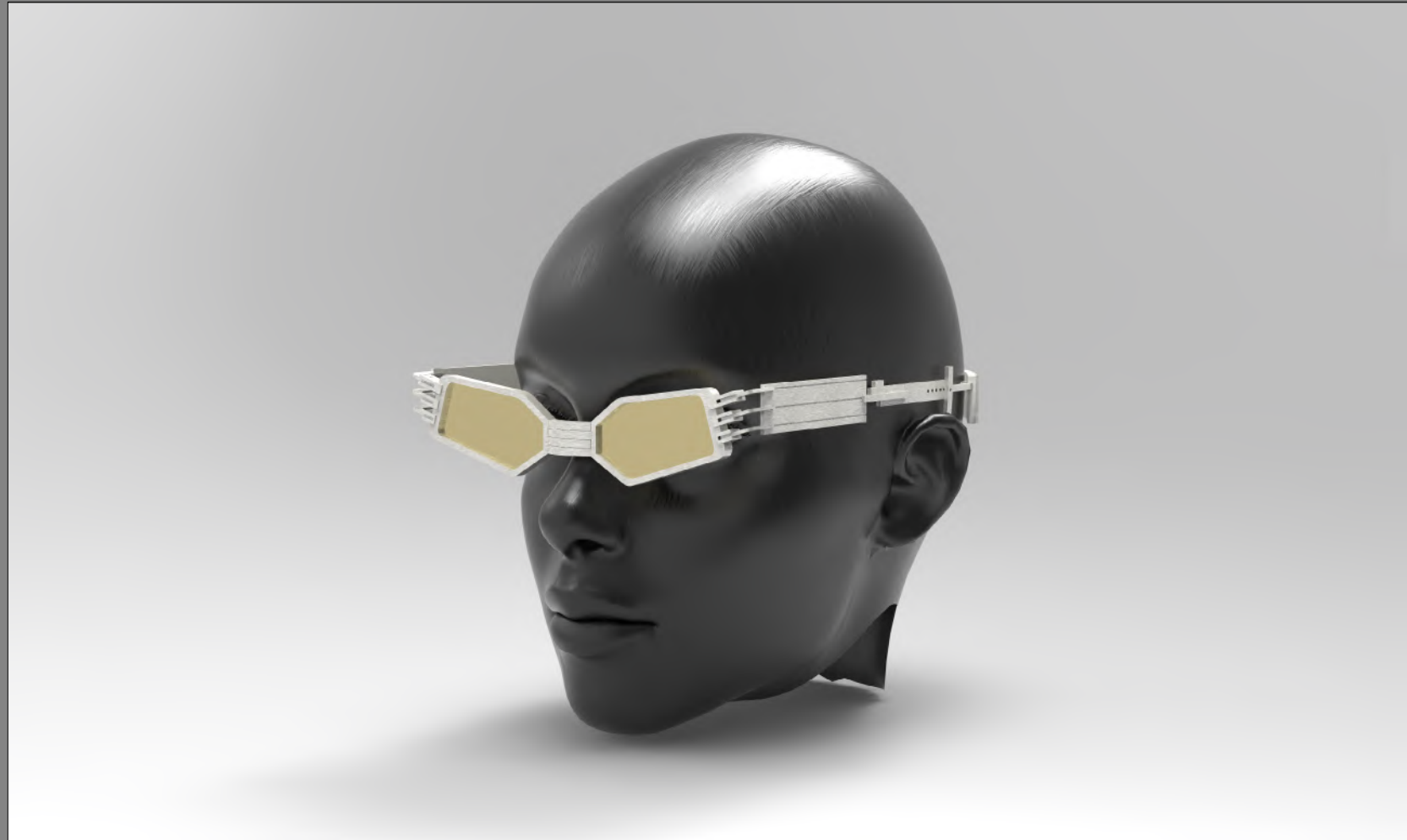


Other Images of the Collection
Model by: Megan Dou, Thai Land
Photographed by: Nuoqi Shen (me)

FUTURE EXPLORER EYEWEAR

Collection Time : Mar 2024

RCA Eyewear Project work



WORK ACHIEVEMENT:

- London 100% Optical Eyewear
Trade Fair 2024 Exhibited

Introducing the "Future-Explorer Eyewear", where bold style meets function. This eyewear makes a bold statement, ideal for casual utilitarian, festival, and outdoor looks, drawing inspiration from the merging realms of the virtual and physical worlds. Crafted with cutting-edge 3D printing technology, it offers a fashion-forward design that transcends on and off the screen. The modular design with detachable fastening allows wearers to adapt their look with ease, complemented by metallic finish frames and tinted lenses. This eyewear places a strong emphasis on protection, featuring an ergonomic, wraparound design. Sustainable materials like biodegradable PLA are chosen for the frames, ensuring durability while minimizing environmental impact. The "Future-Explorer Eyewear" is the ultimate fashion statement, seamlessly blending style, innovation, and sustainability, individuals can elevate their style, protect their eyes, and confidently step into the future.

Phygital frame

"The blurring of lines between virtual and physical worlds and the sci-fi elements of Y2K styling inspire the directional look of the phygital frame, making a statement on- and off-screen." (WGSN 2022)



Off-White



Pierre Cardin

Futuristic/Future Frame



3d printed frame,
Jaded London

The racer frame

The racer frame "respond to the demand for Protective Design with an elongated and ergonomic shape. Prioritise durable and lightweight sustainable materials". (WGSN 2022)



Gentle Monster and Coperni



Mugler

Modular Design



Bændit

Tinted Lenses



vetements

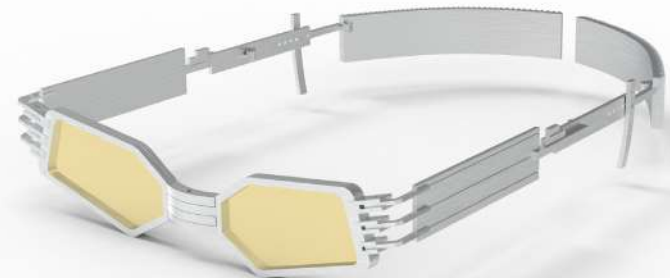
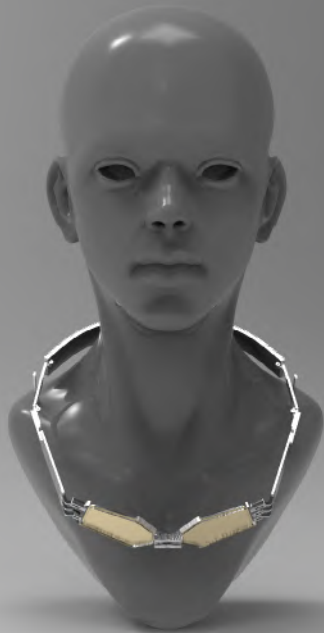


Etro

Shield Shades

Protective Design

RENDERINGS



PROTOTYPE



AR TRY-ON

