

# DESIGN PORTFOLIO

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# CURRICULUM VITAE

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## ABOUT

Multi-disciplinary, systems focused designer/developer specializing in textiles & sustainability. I apply a research intensive process to better understand the context of a problem down to the level of a fiber and combine those insights with macro industry trends to develop holistic solutions that meet the needs of both the user & the brand.

## EXPERIENCE

MYANT INC.  
Designer & Developer  
2021 – Current

Working alongside research, engineering, industrial design, marketing & production teams to design & develop connected garments enabled by proprietary computational textile systems.

COTTON INC.  
Student Ambassador  
2019

Planned & implemented marketing strategies, including a series of workshops focused on sustainability and fabric technologies offered through CottonWorks™.

FREELANCE DESIGNER  
Self Employed  
2014–2018

Supported small businesses with web development, graphic design, textile sourcing, merchandising, & branding services.

## SKILLS

PROTOTYPING..... 4/5  
PATTERN MAKING..... 3/5  
3D/CAD..... 3/5  
BRANDING..... 5/5  
PRODUCT DEVELOPMENT..... 5/5  
WEB DEVELOPMENT..... 5/5  
MERCHANDISING..... 4/5

## SOFTWARE

PHOTOSHOP..... 5/5  
ILLUSTRATOR..... 5/5  
INDESIGN..... 5/5  
RHINO..... 3/5  
CLO 3D..... 3/5

## EDUCATION

UNIVERSITY OF OREGON [2018–2020]  
Master of Science, Sports Product Design

RYERSON UNIVERSITY [2007–2012]  
Bachelor of Commerce, Business Management Major

## COMMUNITY

PORTLAND DESIGN WEEK  
Workshop Organizer

PORTLAND MAKER FAIR  
Workshop Instructor

UO DESIGN STUDENT UNION  
Vice President

## RUNNING

Currently training to qualify for the 2024 Boston Marathon. PBs:

0:04:53 – Road Mile [2017]  
0:17:04 – 5k [2017]  
1:19:21 – 21.1k [2017]  
3:00:16 – 42.2k [2022]



# AIRBENDER FACEMASK









# ATHLETE PROBLEM

ATHLETES LIVING IN WILDFIRE PRONE REGIONS ARE INCREASINGLY BEING EXPOSED TO DANGEROUS LEVELS OF SMOKE WHICH IMPEDES THEIR ABILITY TO TRAIN OUTDOORS & CAN LEAD TO FUTURE HEALTH ISSUES<sup>1</sup> IF BREATHED IN WHILE EXERCISING UNPROTECTED.

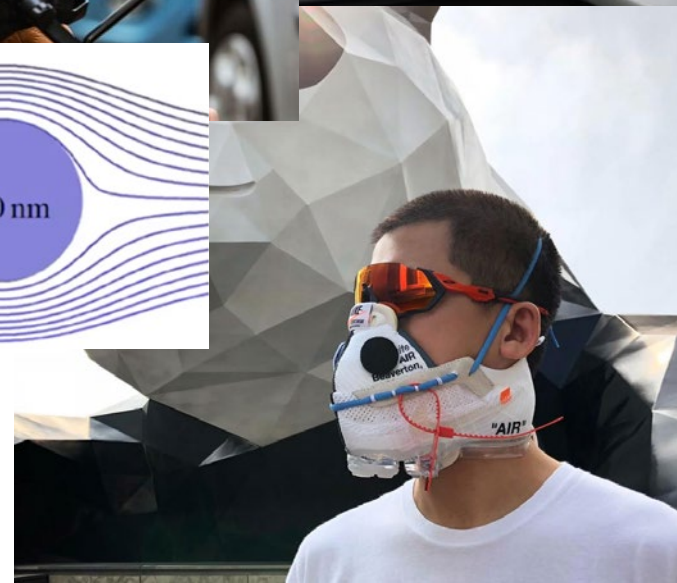
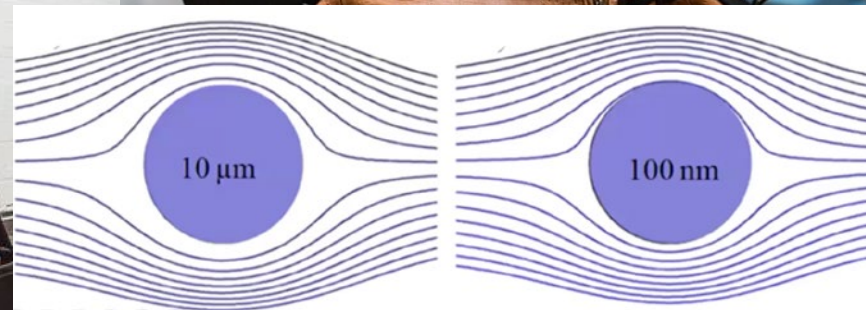
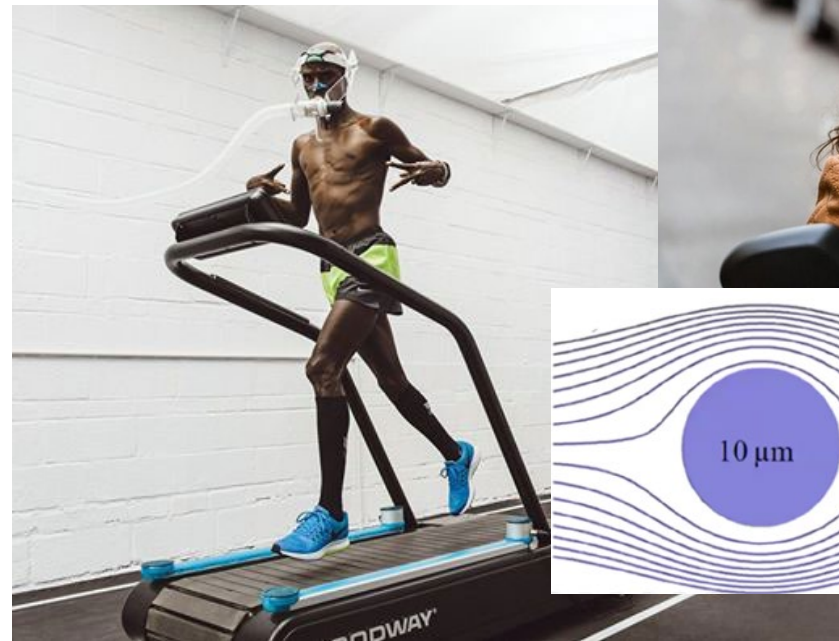


<sup>1</sup> <https://blog.ucsusa.org/kathleen-rest/science-alert-to-epa-chief-gruitt-pollution-kills-people>



# DESIGN STATEMENT

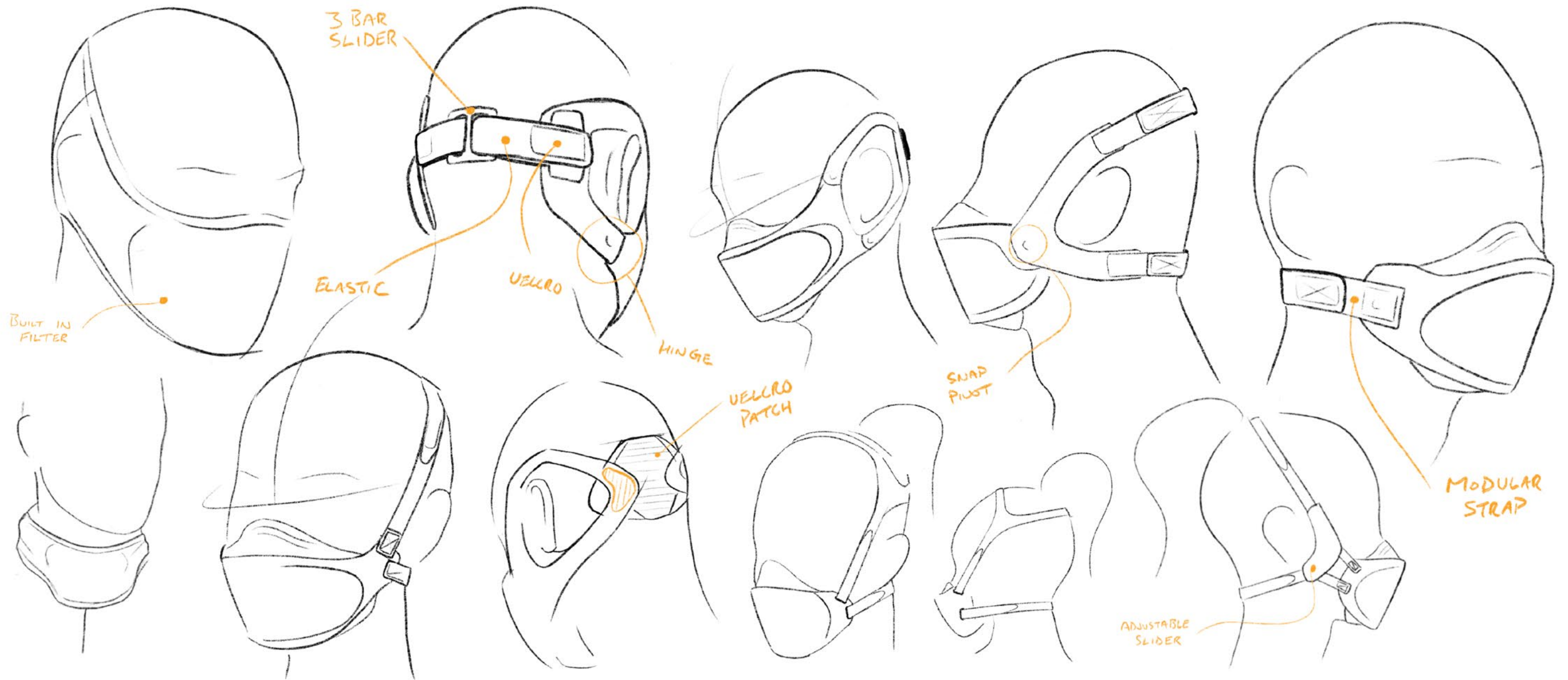
CREATE A FACEMASK THAT SOLVES FOR ATHLETE NEEDS AS IT RELATES TO AIRFLOW, MOISTURE MANAGEMENT, WEIGHT REDUCTION & AESTHETICS, WITH THE FILTRATION & SEAL REQUIREMENTS NEEDED TO EFFECTIVELY PROTECT THEM FROM  $PM_{2.5}$  PARTICULATES.





# IDEATION

EXPLORATION OF FORM, HARNESSING SYSTEMS, CLOSURES & OVERALL UTILITY BASED ON INTERVIEWS, IN DEPTH STUDIES OF FILTRATION SCIENCE/STANDARDS, FACIAL ANATOMICS, PHYSIOLOGICAL DEMANDS & ANALYSIS OF THE RESPIRATOR MARKET.





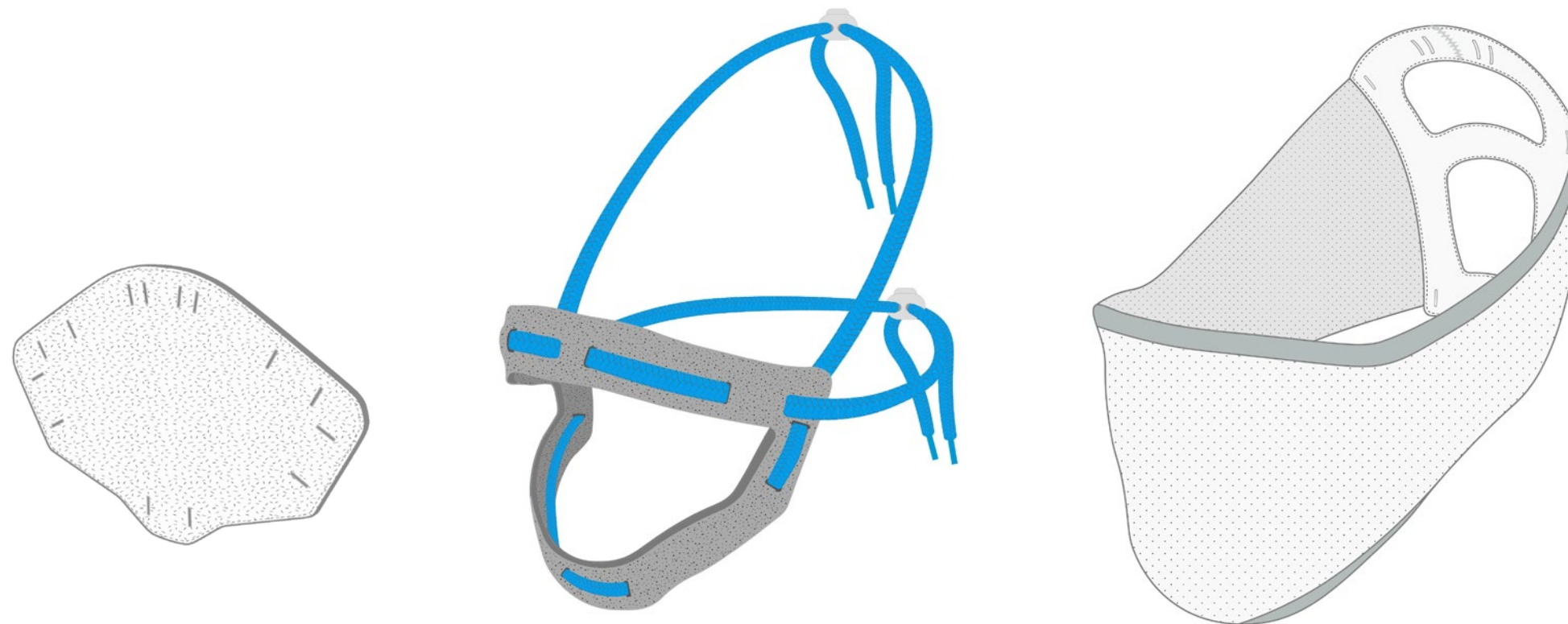
# PROTOTYPING & TESTING

RAPID PROTOTYPING CONDUCTED TO REFINE FORMS, LACING SYSTEMS, OVERALL FIT, AND FILTER/SHELL INTEGRATION, FOLLOWED BY TESTING OF AIR FLOW RATES, SEAL EFFICIENCY & ON ATHLETE TESTING IN ORDER TO REACH PROOF OF CONCEPT.





# AIRBENDER BETA



## V<sub>MAX</sub> FILTER

### OPTIMIZED LAYERING

Balances protection with airflow.

### REPLACEABLE

Enables washable, reusable shell.

## FLEX-FOAM SEAL

### ADAPTABLE FIT

Conforms to facial features.

### LACING SYSTEM

Stabalizes mask & tightens seal.

## GAITER SHELL

### 3D MESH

Manages moisture & shields face.

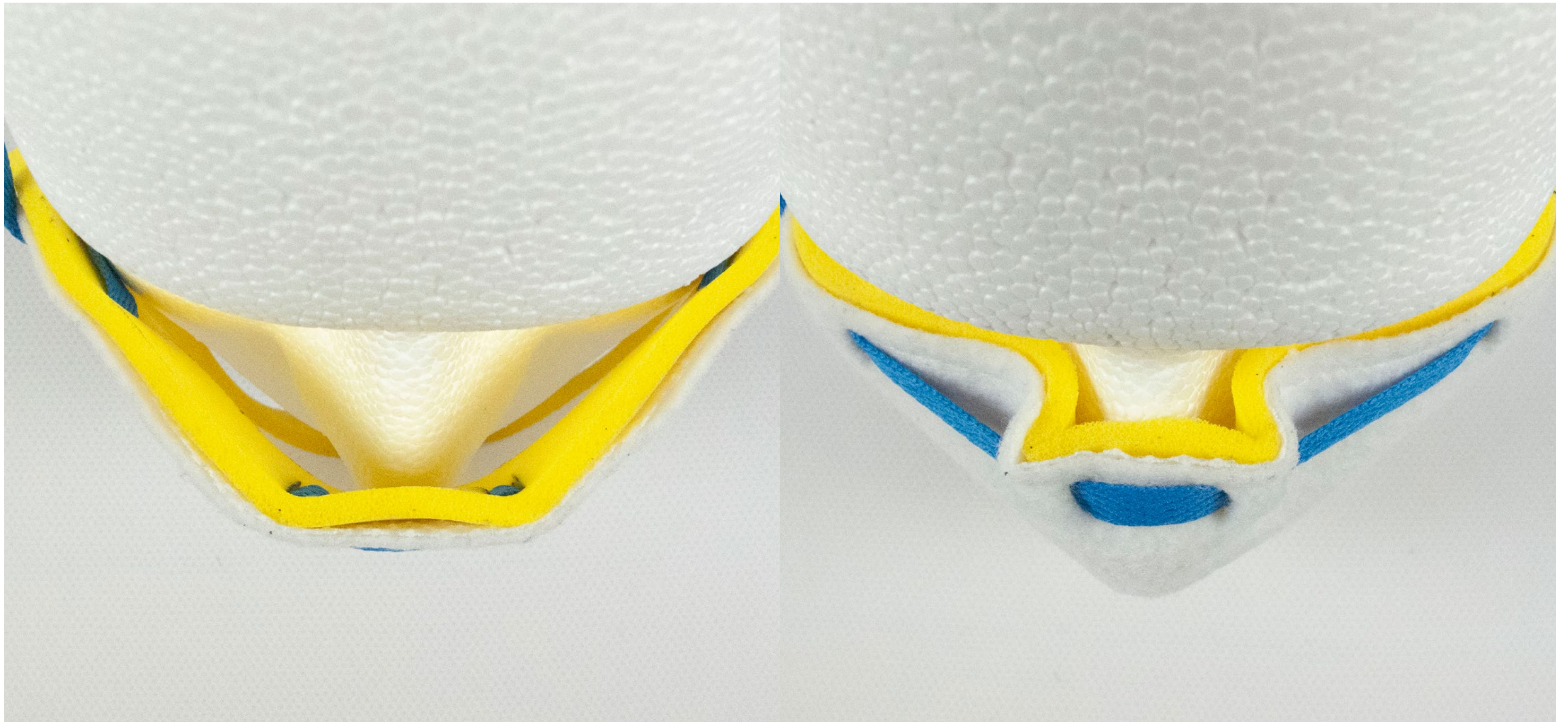
### OPEN BACK

Accommodates variety of hair.



# SEAL MECHANICS

USING AN ULTRA-SOFT MOISTURE ABSORBING FOAM, THE FLEX-FOAM SEAL CONFORMS TO THE CONTOURS OF THE ATHLETES FACE & HELPS FILL IN GAPS AROUND THE NOSE WITH THE HELP OF TENSION CREATED BY THE UNIQUE LACING SYSTEM.









A runner in a grey t-shirt, black shorts, and bright pink and white sneakers is running on a red track. The runner is wearing a black face mask that covers the entire face, leaving only the eyes visible. The runner is running from left to right. In the background, there is a dense forest of green trees and bushes. A large tree trunk with moss is visible on the left side of the frame.

**“IT’S ACTUALLY REALLY COMFORTABLE AND I LIKE HOW  
IT LOOKS, I WOULD DEFINITELY WEAR THIS... ALL THE  
OTHER MASKS RIDE UP ON MY FACE.**

**- JUNIOR, STUMP RUNNERS**



**RECOKNIT  
BODYWEAR**







# ATHLETE PROBLEM

FOLLOWING INTENSE WORKOUTS, AMATEUR ATHLETES ARE OFTEN REQUIRED TO SACRIFICE RECOVERY ROUTINES THAT ARE CRITICAL FOR INJURY PREVENTION AND LONG-TERM HEALTH DUE TO THE DEMANDING PACE OF THE MODERN WORKDAY.





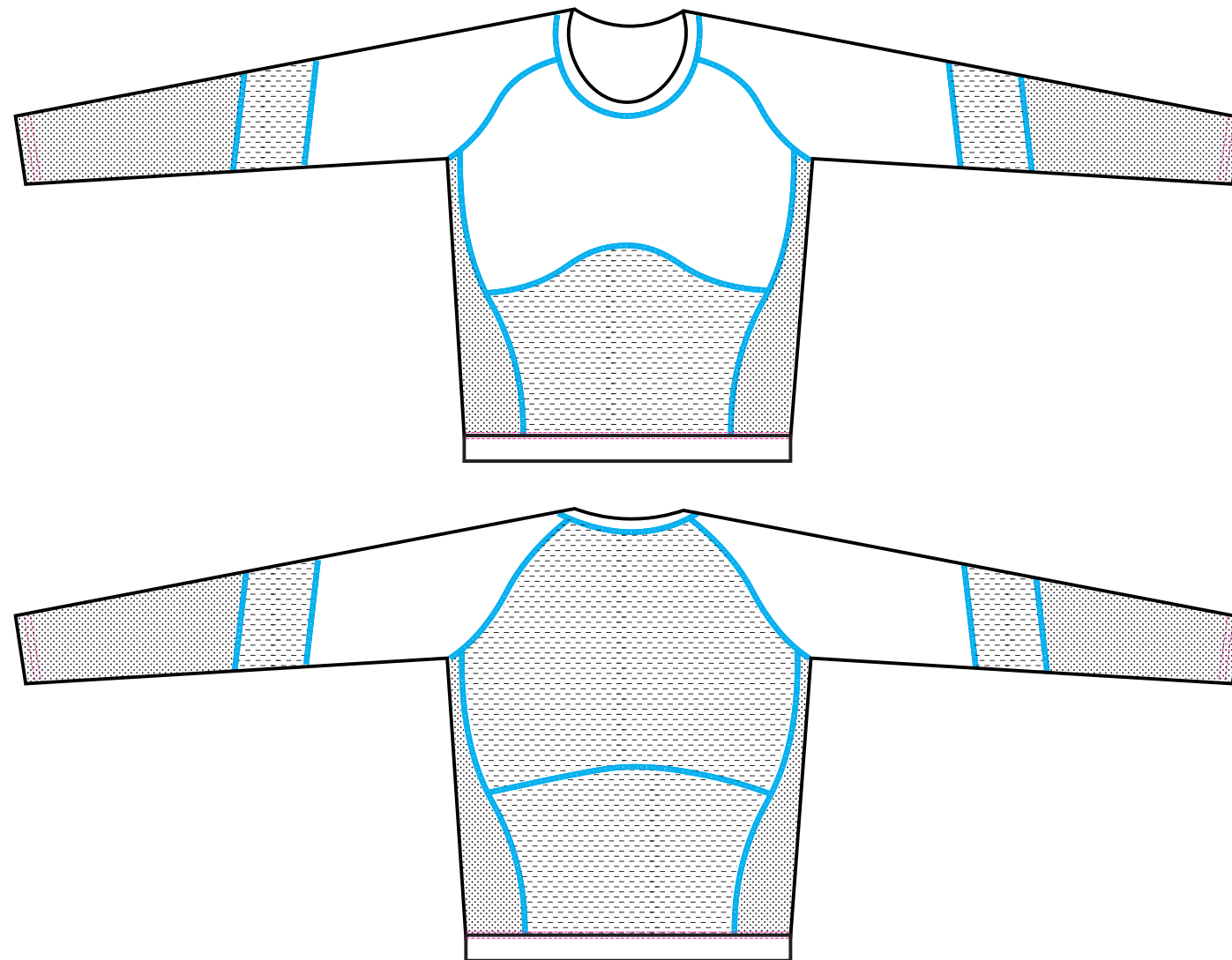
# DESIGN STATEMENT

COMBINE BODY MAPPED COMPRESSION, VENTILATION & MOISTURE MANAGEMENT INTO BODYWEAR WHICH TRANSITIONS SEAMLESSLY POST WORK AND MAXIMIZES COMFORT, ALLOWING ATHLETES TO TACKLE THEIR RECOVERY ROUTINES WITHOUT DISTRACTION.










# REFRESH CROP TOP



## MATERIALS

-  3D POWER STRETCH
-  3D COMFORT STRETCH
-  3D KNIT

## CONSTRUCTION

-  406 COVER STITCH
-  607 FLATLOCK

## FEATURES & BENEFITS

### BODY MAPPED COMPRESSION

Promotes blood flow.

### ANATOMIC STRETCH ZONES

Increased range of motion.

### STANDOFF KNIT

Boosts airflow & reduces cling.

### COTTON/NYLON BLEND

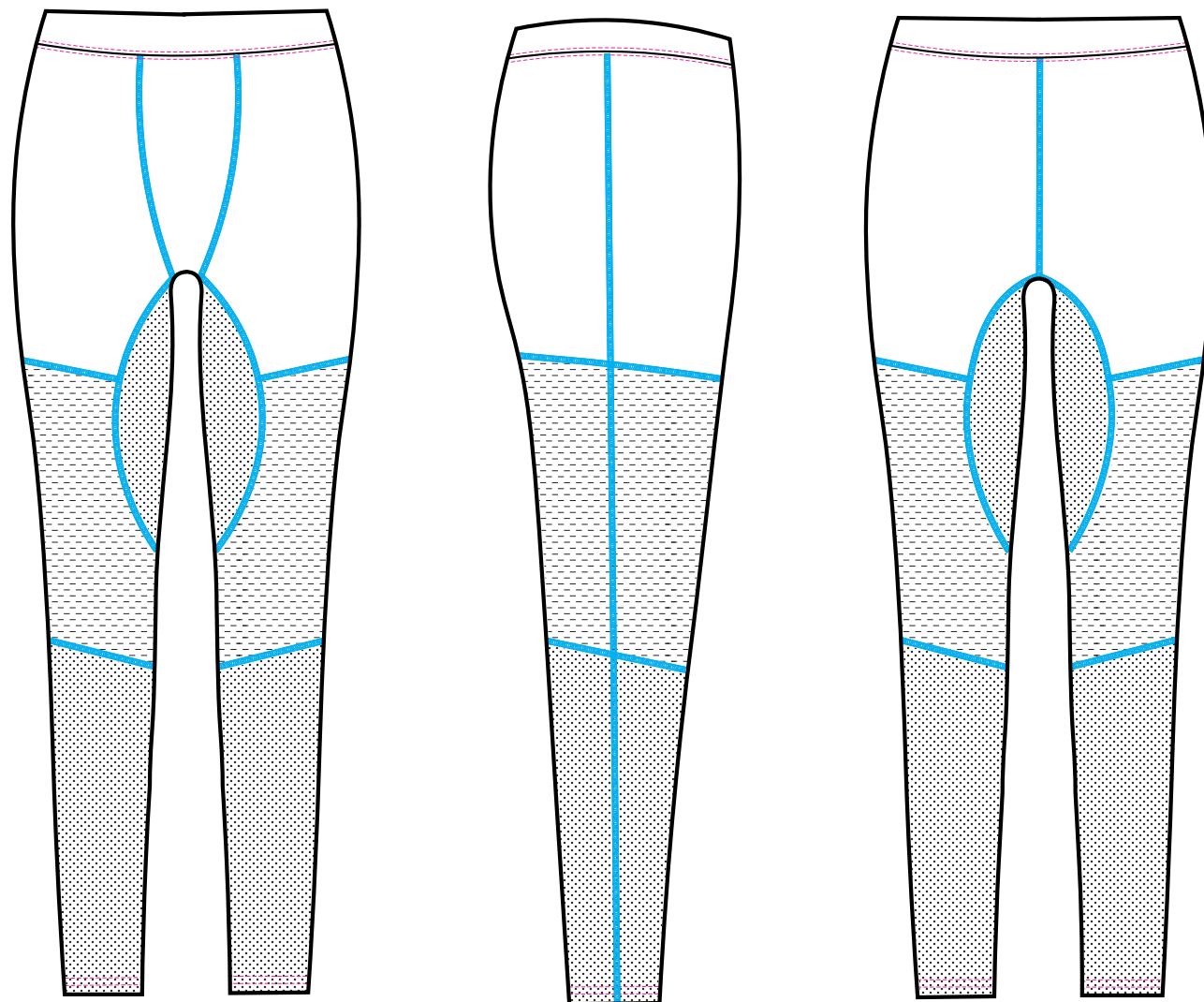
Soft hand & improved durability.












# REVIVE TIGHTS



## MATERIALS

-  3D POWER STRETCH
-  3D COMFORT STRETCH
-  3D KNIT

## CONSTRUCTION

-  406 COVER STITCH
-  607 FLATLOCK

## FEATURES & BENEFITS

### BODY MAPPED COMPRESSION

Promotes blood flow.

### GUSSETED CROTCH

Increases range of motion.

### STANDOFF KNIT

Boosts airflow & reduces cling.

### COTTON/NYLON BLEND

Soft hand & improved durability.







**ZIZU-MINI  
BALL  
BAG**

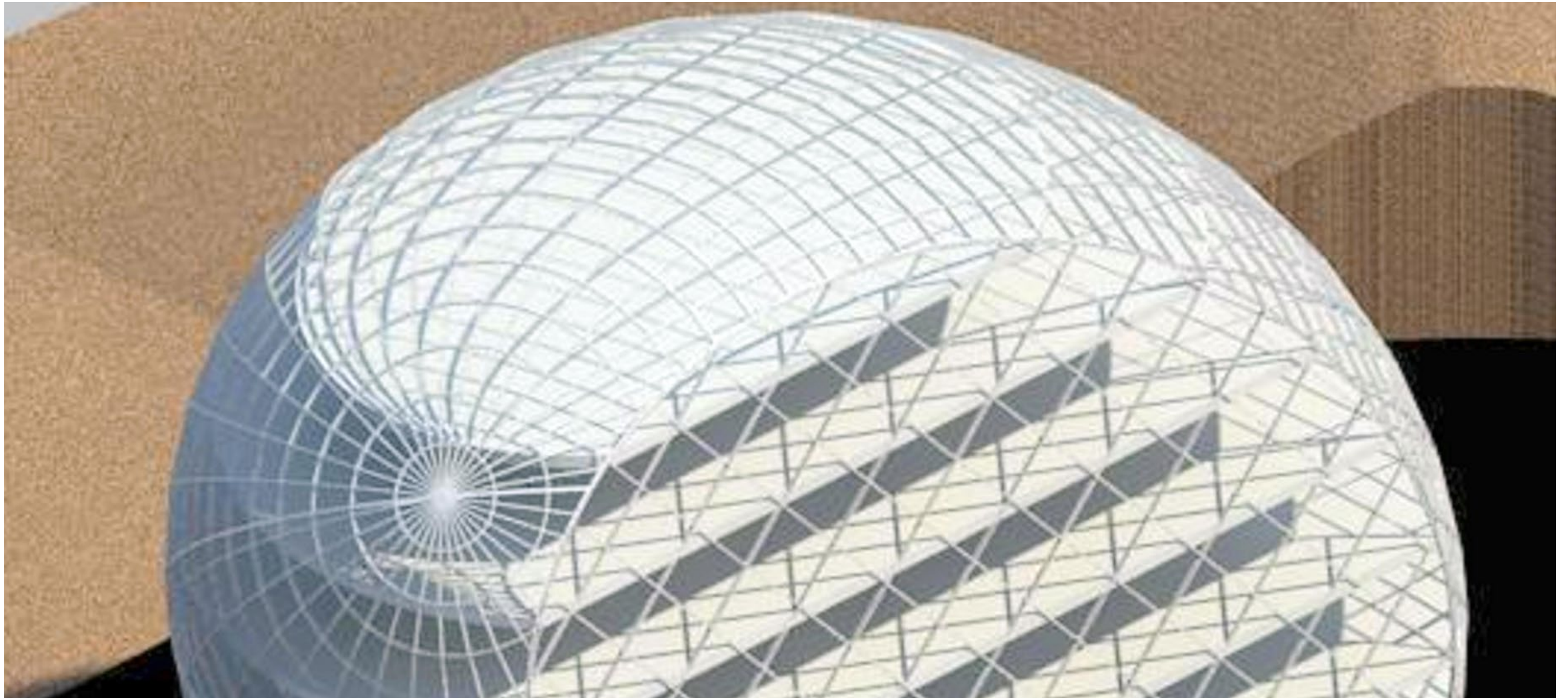






# DESIGN PROMPT

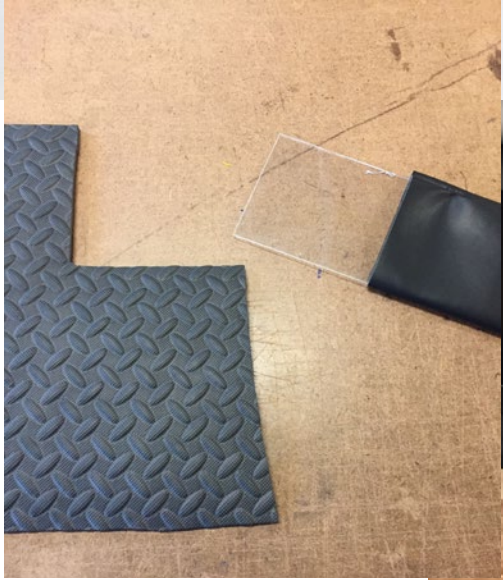
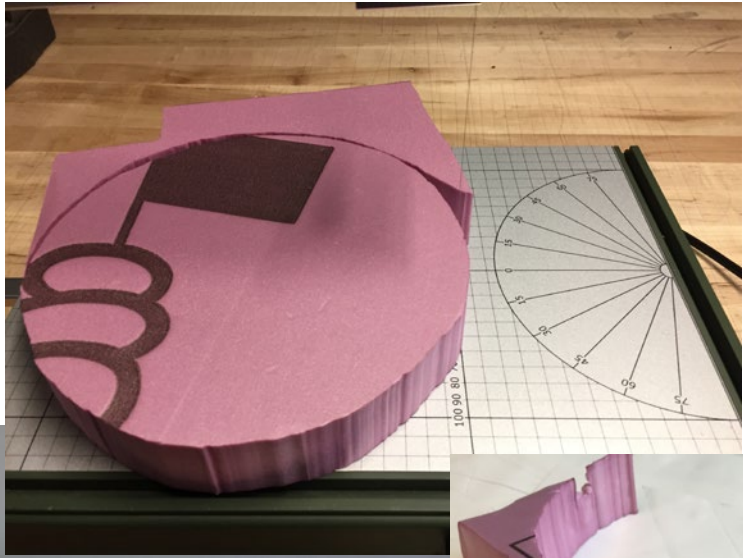
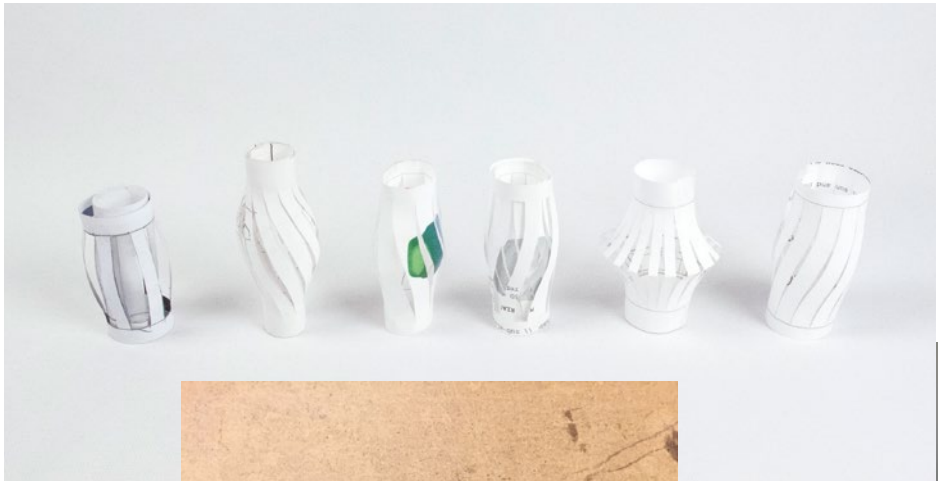
DEVELOP AN INNOVATIVE BAG CONCEPT USING THE INTERSECTION OF ARCHITECTURE AND SPORTS PRODUCT DESIGN. USING JAMES LAW'S CYBERTECTURE EGG, FORM WOULD GUIDE FUNCTION, INSPIRING A MINIATURE BALL BAG FOR THE URBAN ATHLETE.





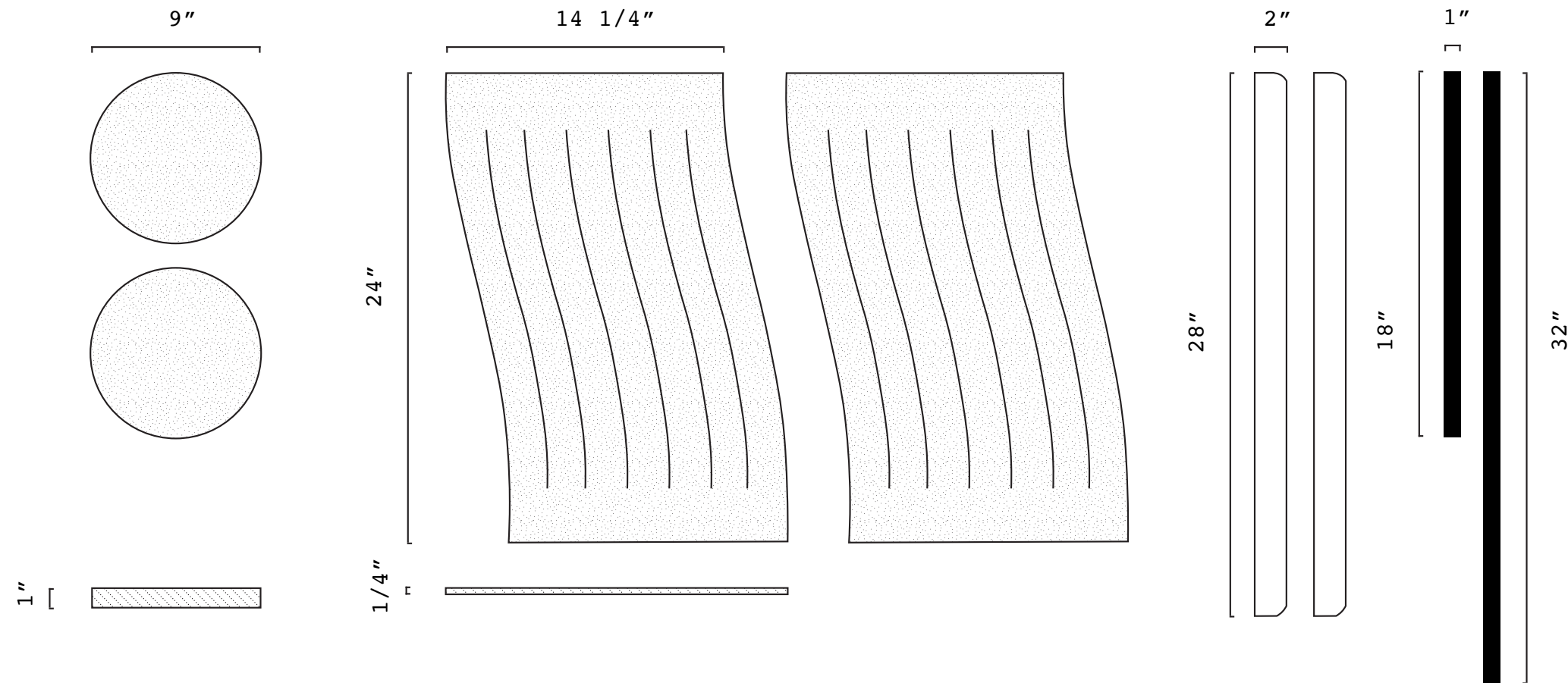
# IDEATION & PROTOTYPING

STARTED WITH PAPER MODELS TO EXPLORE FORM, THEN PROGRESSED TO EXPERIMENTING WITH MATERIALS AND CONSTRUCTION TECHNIQUES BEFORE REACHING A FUNCTIONAL PROTOTYPE WHICH EXPANDS & CONTRACTS WHEN THE ENDS ARE COMPRESSED.








# ZIZU-MINI



## MATERIALS

-  EVA FOAM
-  SYNTHETIC LEATHER
-  POLYESTER WEBBING

## FEATURES & BENEFITS

- FLEX FRAME**  
Fits up to 4 size 5 balls.
- TENSION STRUCTURE**  
Disassembles for travel.
- ADJUSTABLE STRAP**  
Multiple carrying options.
- COMPACT SIZE**  
Easy to transport.







# CONTACT

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THANK YOU FOR YOUR TIME.