

TYLER JOHN COX

GRADUATE INDUSTRIAL DESIGN PORTFOLIO

HI, IM TYLER

THIS IS MY PORTFOLIO I MADE FOR YOU

I ATTENDED IOWA STATE UNIVERISITY AND I HAVE A BACHELORS IN INDUSTRIAL DESIGN. I AM DRIVEN BY INNOVATION AND CURIOSITY.

I HAVE FOUND A LOVE FOR ADAPTIVE WEAR, AND AIM TO CREATE DESIGNS THAT HOLD FUNCTION ABOVE FORM WHILE MAINTAINS CURRENT TRENDS AND STYLES.



TABLE. OF. CONTENTS.

MEDIUM SPRING GREEN.

HEX	5FEDA2	HSB	148. 60. 93
RGB	95. 237. 162	HSL	148. 80. 65
CMYK	60. 0. 32. 7	LAB	85. -55. 25

#002 WELCOME

#004 DNA 3.0
SPORTS WEAR

#014 MAGNA-EASE
FOOTWEAR DESIGN

#022 MY WORK
OFF PROJECT

#027 THANK YOU

An aerial photograph of a green lawn with a white chalk circle drawn on it. The circle is on the left side of the frame. The text 'DNA 3.0' is written in large, white, bold letters on the right side of the lawn.

DNA 3.0

KROMATIN 2017 SPRING INTERNSHIP
IOWA STATE UNIVERSITY
8 WEEKS

PB

PROJECT BRIEF

PRODUCE THE DNA 3.0

USING THE DNA 2.0, VARIOUS RESEARCH METHODS & MATERIAL RESEARCH, I CREATED THE DNA 3.0



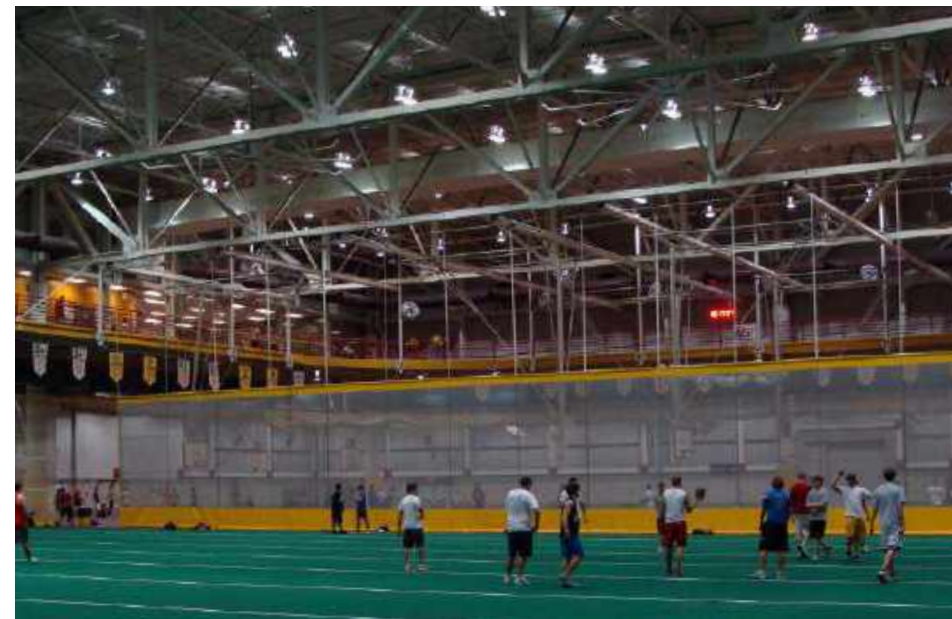


INCONTEXTUAL RESEARCH

- THE GLOVE' S INDEX FINGER TWISTS WHILE PLAYING, CAUSING DISCOMFORT & LOSS OF CONTROL.
- NOT ENOUGH GIVE AT THE ENTRANCE DUE TO THE USE OF THE NON ELASTIC THREAD.
- NON-LAMINATED NEOPRENE ON THE WRIST RIPS AHEAD OF THE SEAM WHEN PULLING GLOVE ON.
- THE THUMB IS NOT ALLOWED FULL RANGE OF MOTION. PATTERN FOR THE SILICON GRIP CAN BE ADJUSTED TO PROVIDE FINGERS AND THUMB FULL RANGE.



LOCAL PICKUP FLAG FOOTBALL
TEAM TEST THE GLOVES



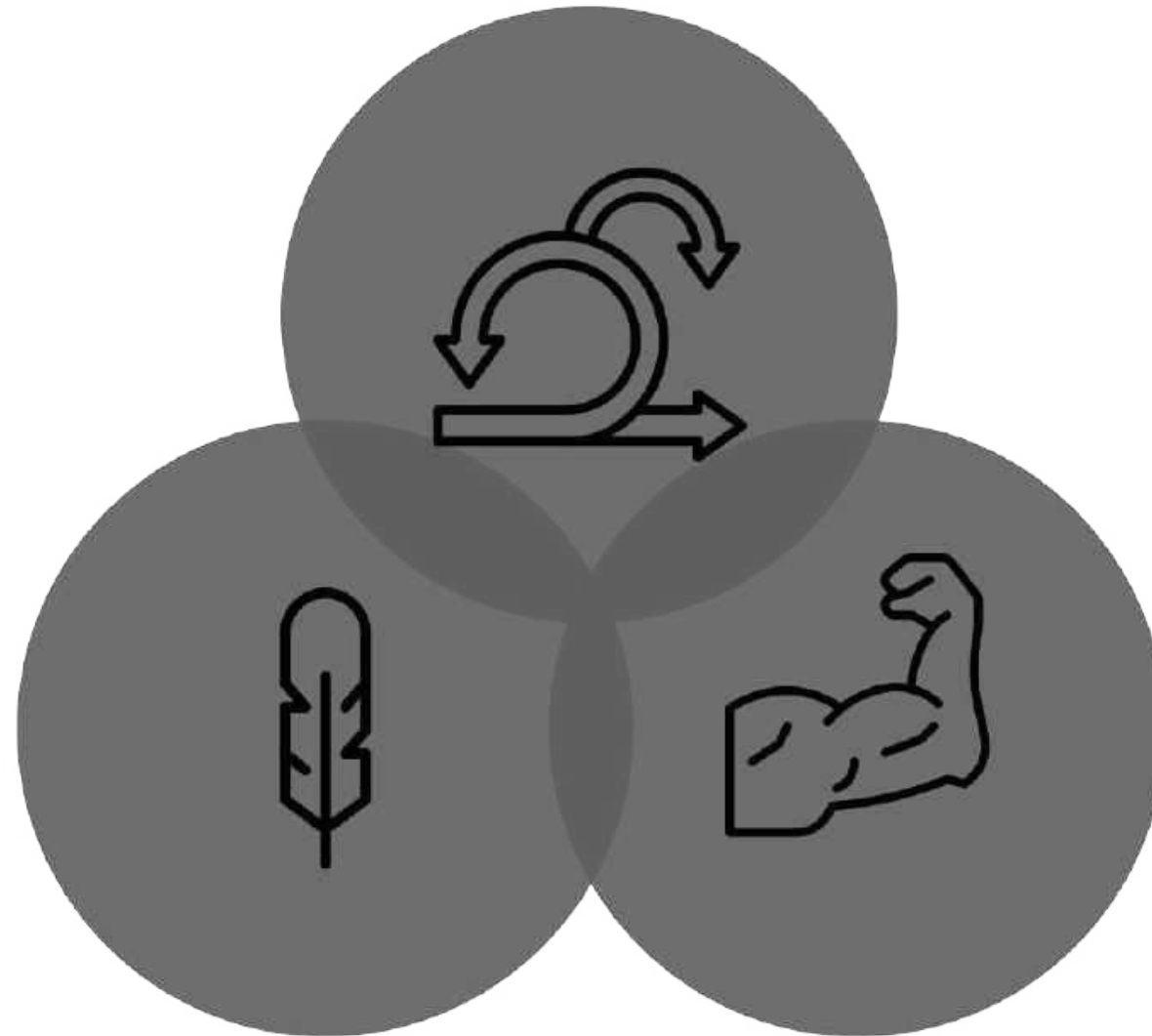
LITHE X DURABLE X LIGHT

LITHE

NEEDS TO BE FLEXIBLE, TO FLOW WITH THE FINGERS AS THEY MOVE. GRACEFUL AND SLENDER.

LIGHT

NEEDS TO BE AGILE AND SWIFT. UNHINDERING OF THE USER MOVEMENT.



DURABLE

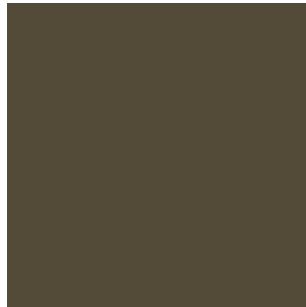
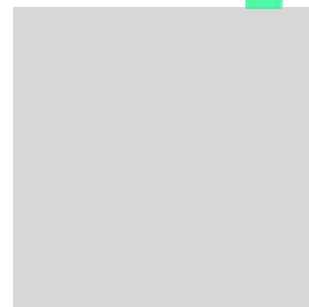
NEEDS TO BE DEPENDABLE, STRONG, AND RELIABLE. RESISTANT TO TEARS AND SCRAPES.



MB
MOODBOARD

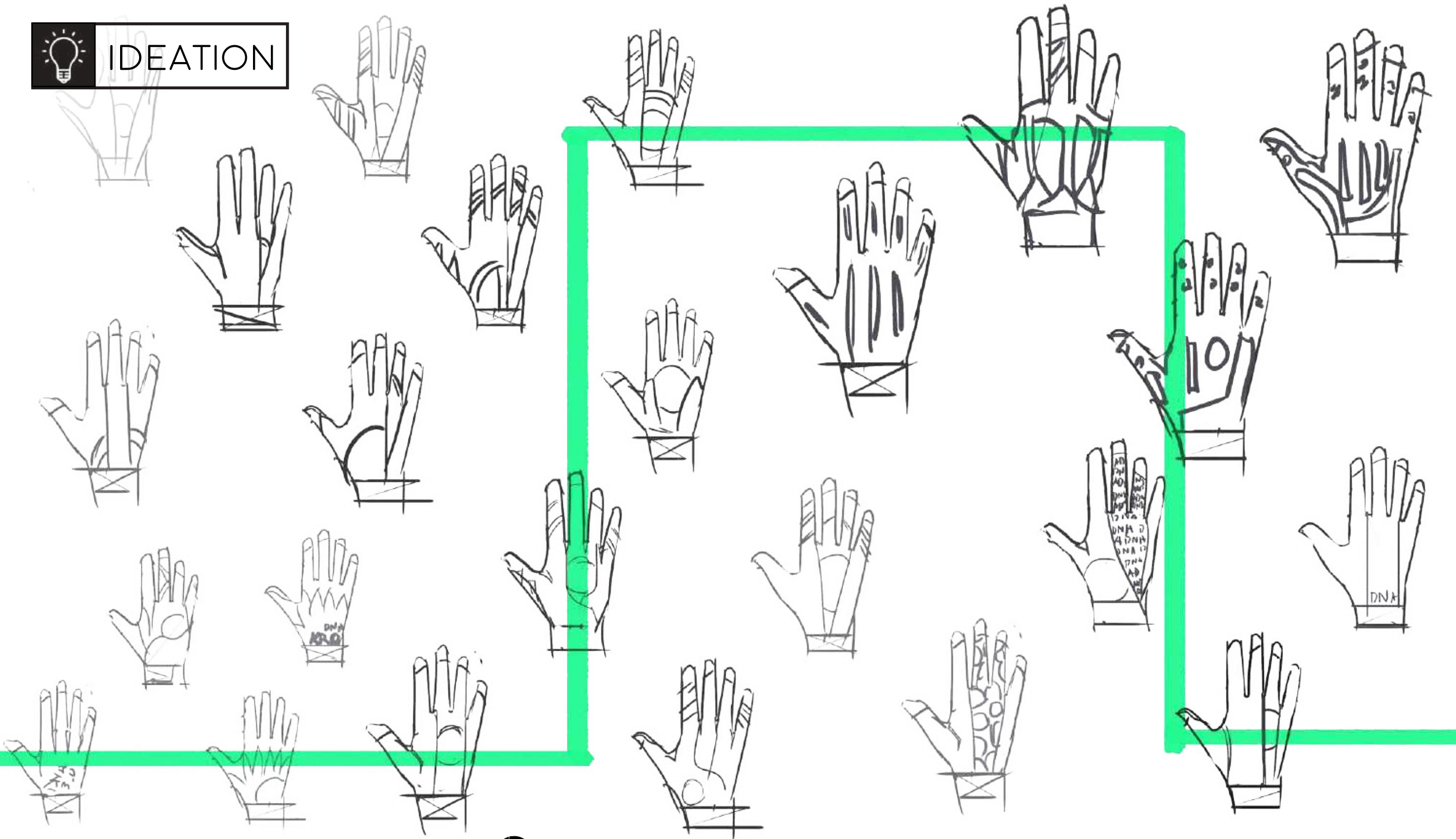
"CYBERNETIC SAMURAI"

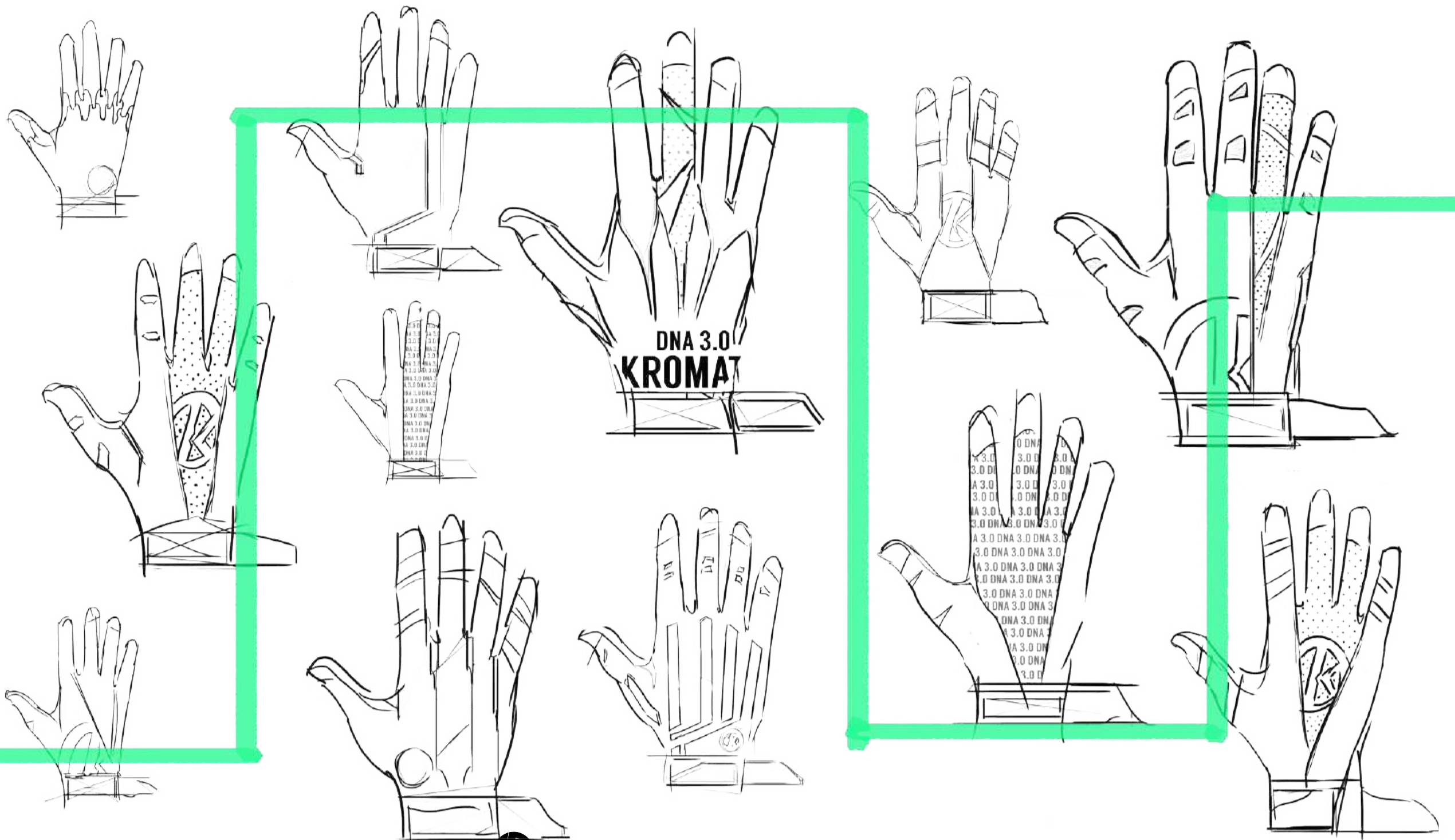
BY UTILIZING TREND ANALYSIS, I HAVE COMPOSITED A MOODBOARD TO AID IN IDEATION.



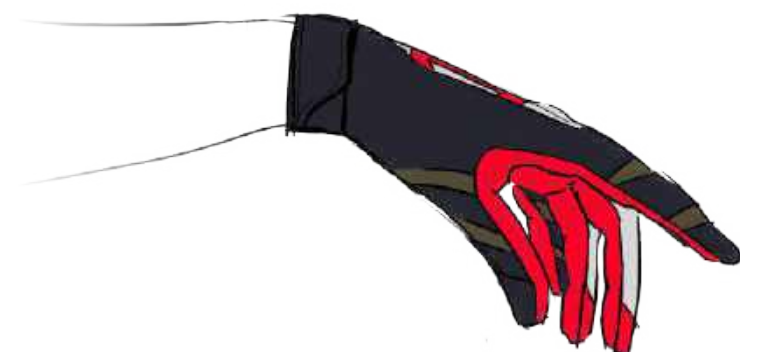
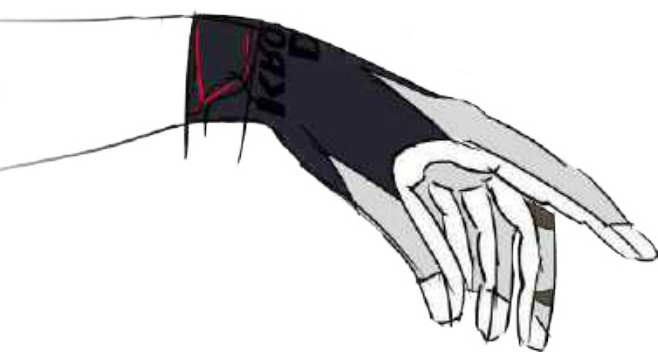
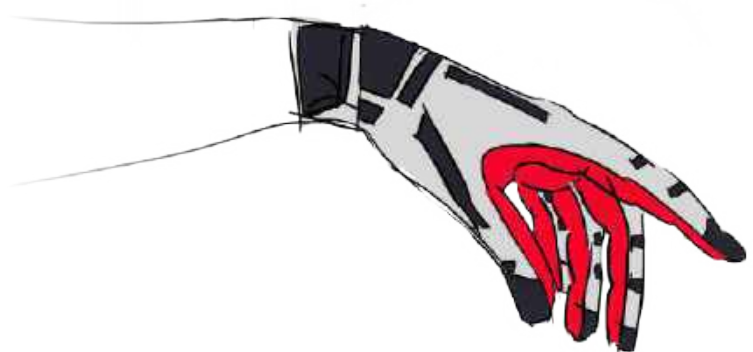
KROMATIN SPRING INTERNSHIP

IDEATION





DNA 3.0
KROMAT



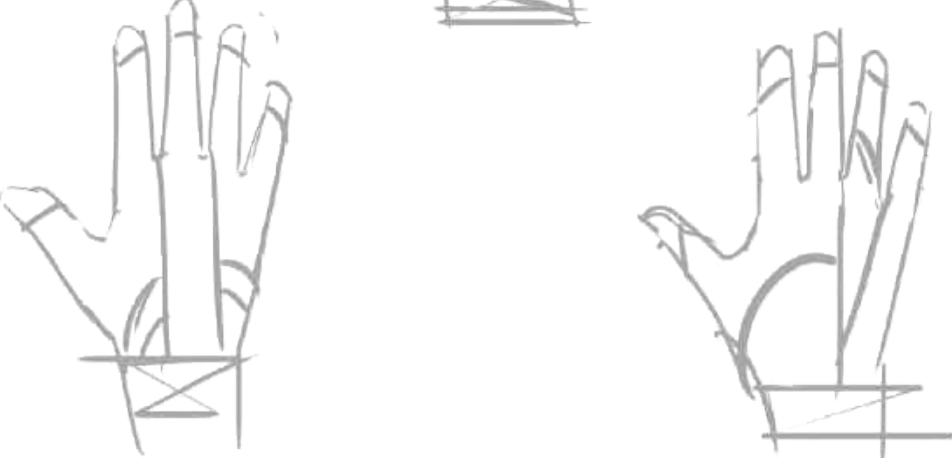
THUMB BREAK FOR MOBILITY



GRIP TIPS



KNUCKLE PROTECTION AND MOVEMENT WITH FLEXIBLE NEOPRENE PADDING AND COVER.





KROMATIN SPRING INTERNSHIP

MAGNA EASE

NIKE EASE CHALLENGE

1 WEEK



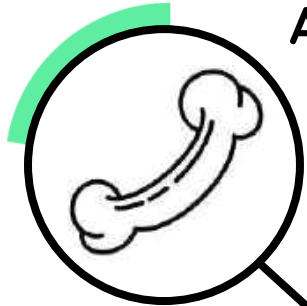
PB

PROJECT BRIEF

ADAPTABLE FOOTWEAR

NIKE IS SEEKING NEW AND INNOVATIVE FOOTWEAR SOLUTIONS
THAT ARE MORE HANDS-FREE AND IMPROVE EASE OF USE

- SYNDACTYLY
- POLYDACTYLY
- ULNAR & RADIAL ANOMALY
- CLUB HAND



ANOMALY



INJURY

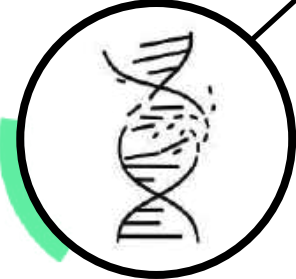
PROBLEM:

THE EXISTING ADAPTIVE WEAR DESIGNS ARE LACKING STYLE AND INNOVATION.

I BELIEVE IT IS IMPORTANT THAT WE CAN ALL FEEL GOOD IN THE CLOTHES AND GEAR WE WEAR.

- MUSCLE STRAINS AND TEARS
- AMPUTEE
- CARPAL TUNNEL
- TENDION
- COMPARTMENT SYNDROME
- DE QUERVAINS TENOSYNOVITIS
- HEAD INJURY
- CEREBRO LESION
- SPINAL CORD INJURY
- TETRAPLEGIA
- STROKE
- SOFT TISSUE INJURY

DISEASE



- DIPUYTREN DISEASE
- DIABETES
- ALZHEIMERS
- ARTHRITIS



EXISTING NIKE PRODUCTS

NIKE ALSO ADVISED TO TRY AND INCORPORATE THEIR RECENT TECHNOLOGY ADVANCES IN FOOTWEAR

NIKE HYPER ADAPT 1.0



EARL PROJECT PRODUCED SELF LACING SHOES, PAIRED WITH FLYKNIT TECHNOLOGY

NIKE FLYEASE



ZIPPER WRAPS AROUND, ALLOWING EASE OF ACCESS

DORSAL AND REAR STRAPS ALLOWS FOR EASY ACCESS, AS WELL AS LIGHTWEIGHT

NIKE SOCK DART



NIKE SOCK DART

EXTREMELY LIGHTWEIGHT, ICONIC RE-RELEASE, SUITED FOR CERTAIN MARKET



BECAUSE OF MY DIPUYTREN'S, I HAVE DIFFICULTY MANIPULATING ZIPPERS.

MY PARENTS AND I HAVE FOUND VELCRO, LOOP SYSTEMS, WIDE ENTRANCES, AND WIDE TOE CAGES TO BE THE MOST COMMONLY USED.

WE HAVE FOUND SOME EXISTING SOLUTIONS IN OTHER ADAPTIVE PRODUCTS SUCH AS HOOKS, LOOPS, GRIPPING AIDS, & ENLARGED EQUIPMENT





PROTOTYPING

MADE A QUICK PROTOTYPE TO TEST THE EASE OF THE SOLUTION. I USED DUCT TAPE. SEWED A STRAP AND ATTACHED A FIDLOCK TO IMITATE THE MAGNETIC FASTENER.



STRAP MATERIAL INQUIRYS

DURING MATERIAL RESEARCH AND TESTING. FOUND THAT RUBBERIZED FLYKNIT OR TPU PLASTIC WORK BEST FOR THE STRAP.



RUBBERIZED FLYKNIT



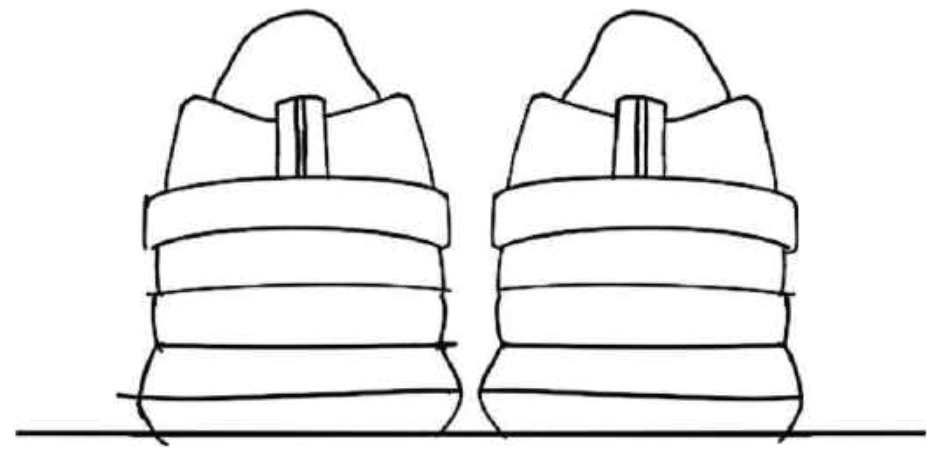
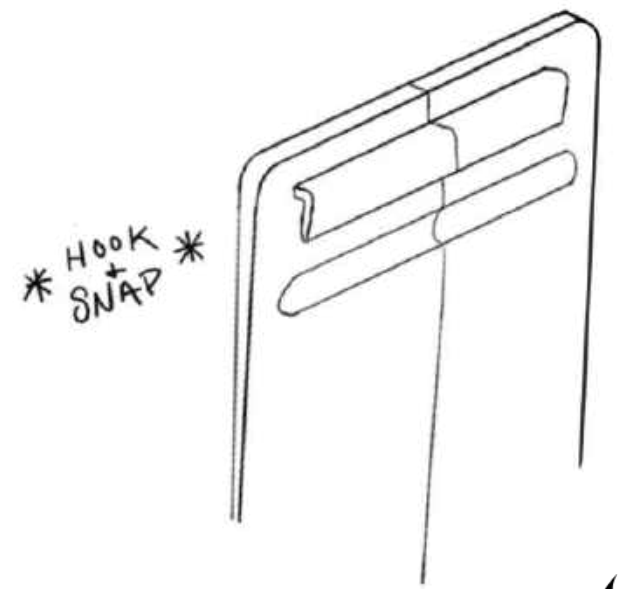
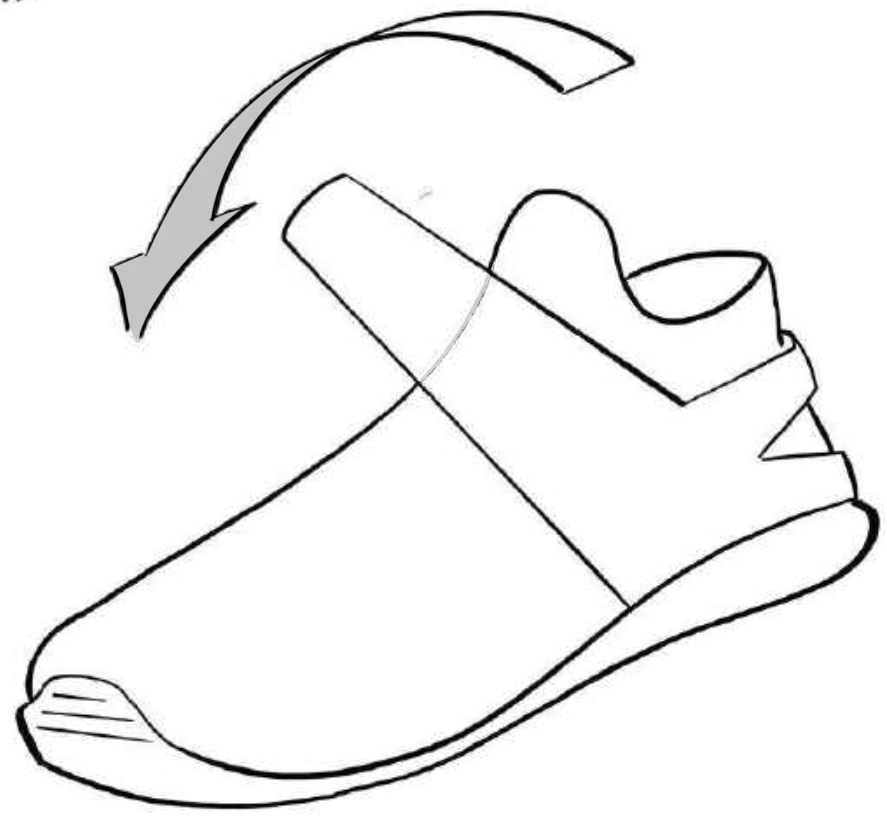
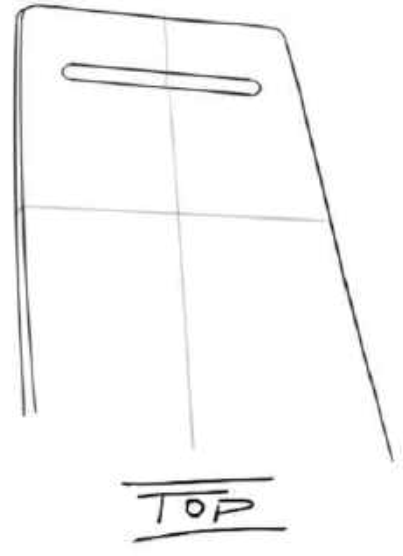
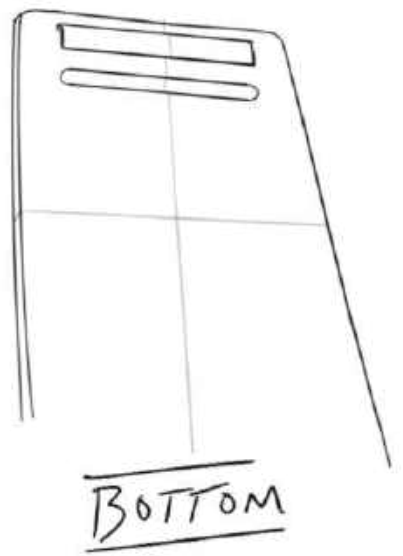
TPU PLASTIC

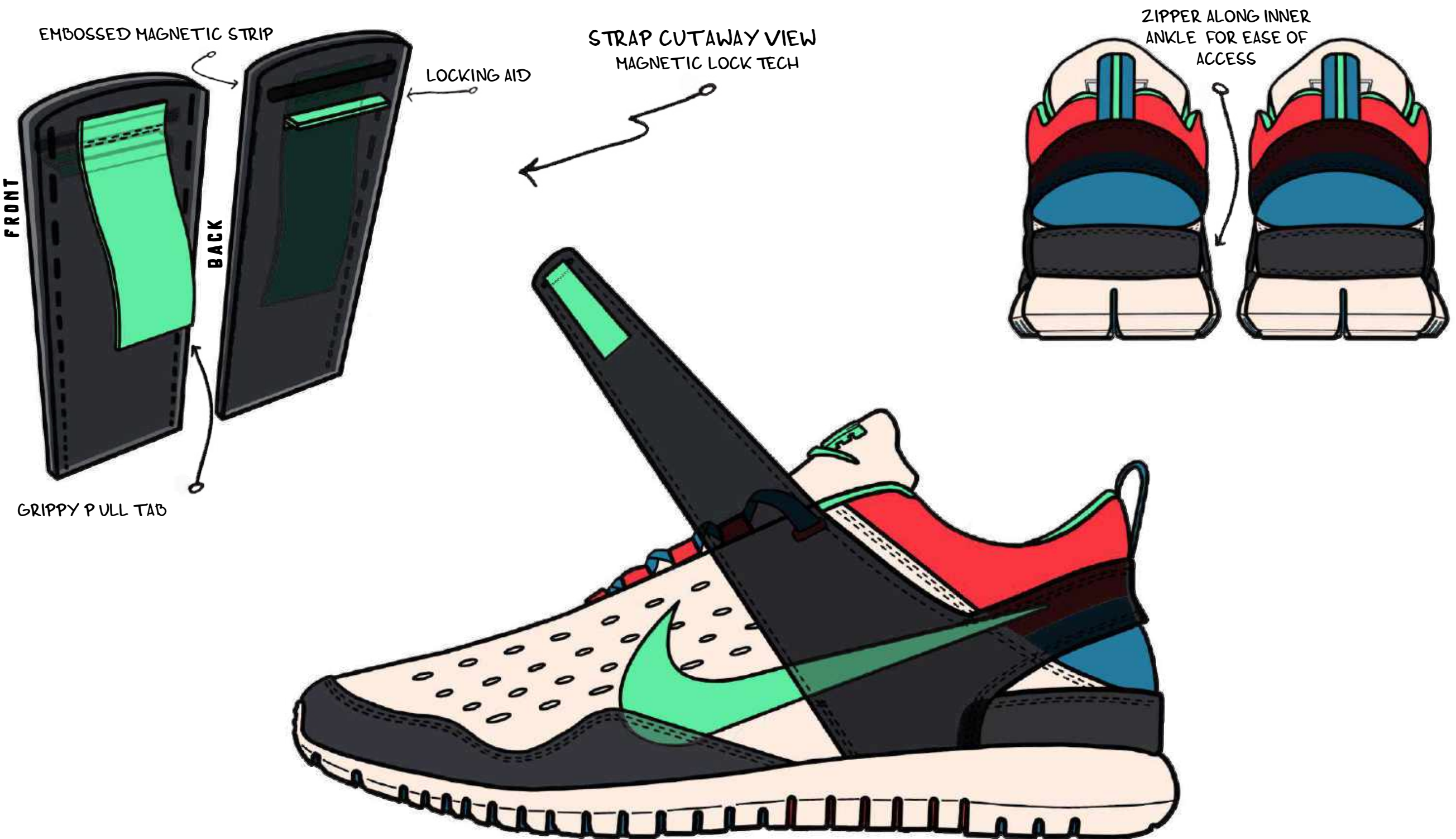


NIKE EASE CHALLENGE

SOFT +
FLEXIBLE
TPU STRAP

NEOMAGNET





PERSONAL WORK



COVER: SKETCH WORK

PW
PERSONAL WORK

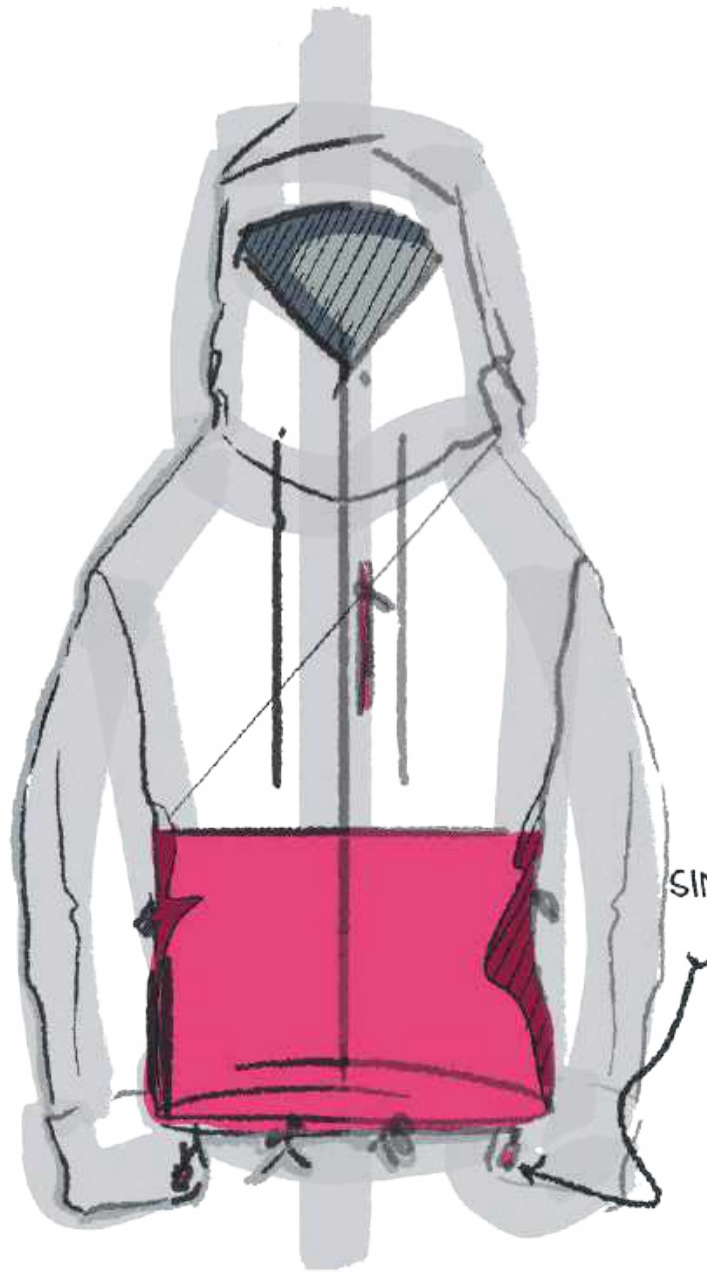
PROJECTS AND PRACTICE

A MIXTURE OF MY PROJECTS AND PRACTICE ALONG THE WAY

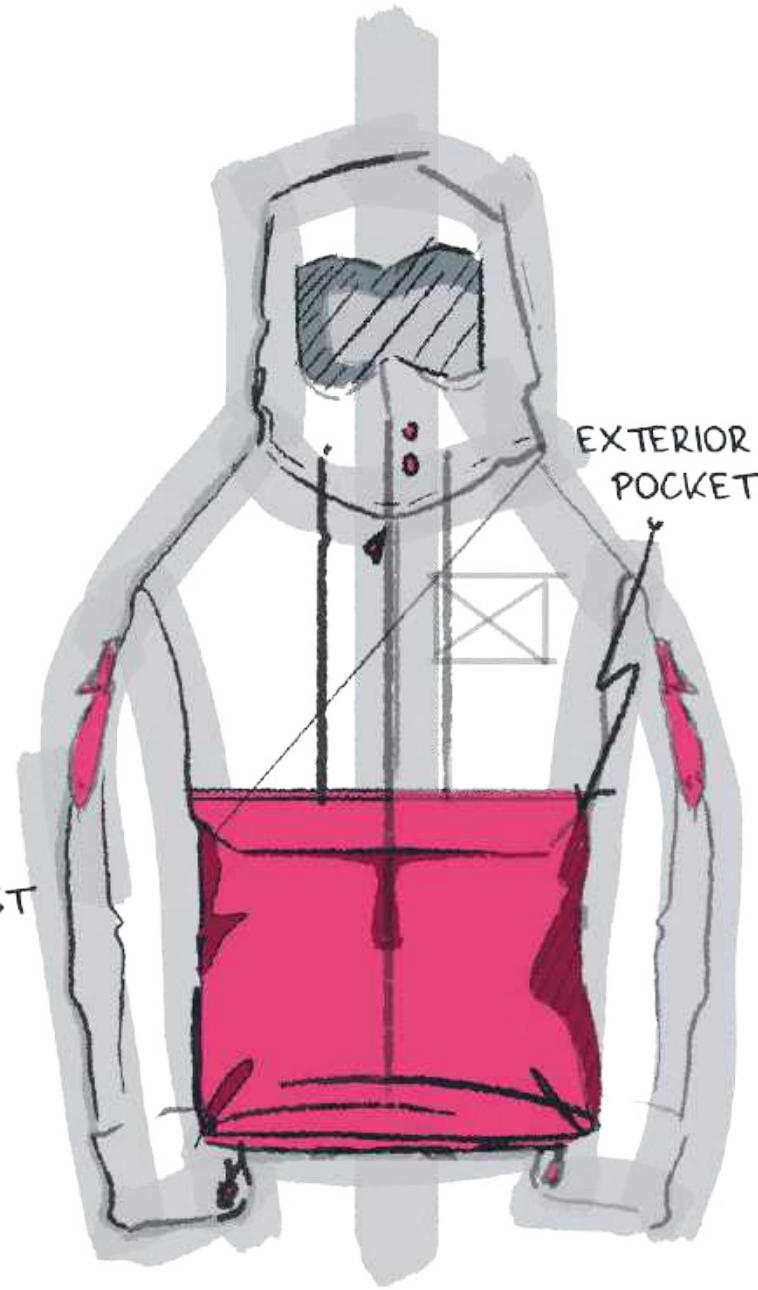


GRAVITY SKETCH PRACTICE

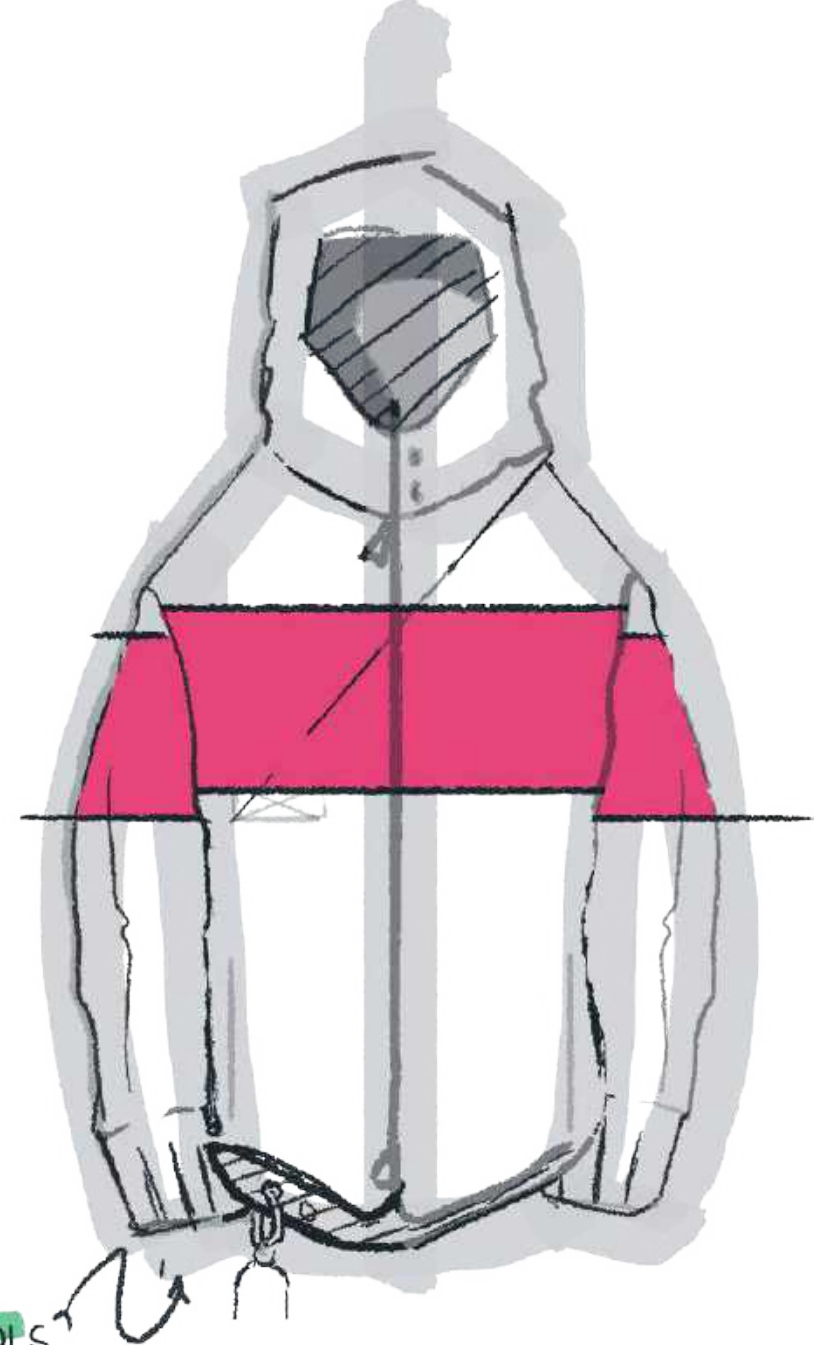
RENDERING A QUICK SKETCH. CAME UP WITH FUN AND EFFICIENT WAYS TO EXCEL MY MODEL THROUGH OUT THE PRACTICE.



SINCH WAIST



EXTERIOR
POCKET



GROMMET FOR HANGING TOOLS,
ACCESSORIES, ETC





GRAVITY RENDER
SKETCH RENDER









**THANK
YOU**

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