PORTFOLIO

tevin keobouala

Technical design, fit, and product development, alongside textile design and concept work, 2023–2026.

FOCUS

Tech packs and grading
Fit sessions and fit corrections
Stitch and seam specification

CONTACT

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INTRODUCTION

from hand-off to spec

I'm a Fashion and Textile Management senior at NC State's Wilson College of Textiles, concentrating in Fashion Development and Product Management, and I graduate in December 2026. I started college in computer science at UNC Charlotte before switching to apparel, and I still treat development as a system.

Most of this work takes a garment from design hand-off to a production-ready spec: graded tech packs, fit sessions and fit corrections, stitch and seam specification, bills of materials and costing, and virtual fit in Gerber AccuMark and CLO 3D. I also cut and sew my own samples, so I know what a spec asks of the person building from it.

The portfolio leads with technical design, then moves through construction, textile design, and concept work.

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01

saddles patched jacket

tech pack, grading, and virtual fit

year	Fall 2025
role	Tech designer
team	Reece Foltz, Collin Stockmoe, Claire Sloan
sizing	XL to 5X, graded
tools	Illustrator, CLO 3D, Gerber Accumark

A western jacket in brown canvas with olive paisley patchwork across the front, back, and sleeves, designed for extended sizing from XL to 5X. The patches are arranged as deliberate geometric blocks, so they read as part of the jacket's structure.

We documented it in an 18-page tech pack: flats, nine colorways, a bill of materials, pattern pieces, graded specs, construction callouts, and an order of operations.

a 301 lockstitch for patch attachment

b 304 for buttonholes, 514 overedge for cuff assembly

c CLO 3D virtual fit to troubleshoot before sampling and cut down physical fit rounds



front



side

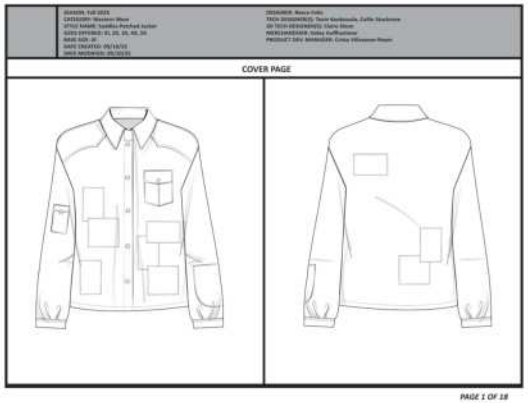


back

SPEC

An 18-page tech pack covering flats, nine colorways, artwork, a bill of materials, two pattern iterations, graded finished measurements, construction and placement details, and an order of operations.

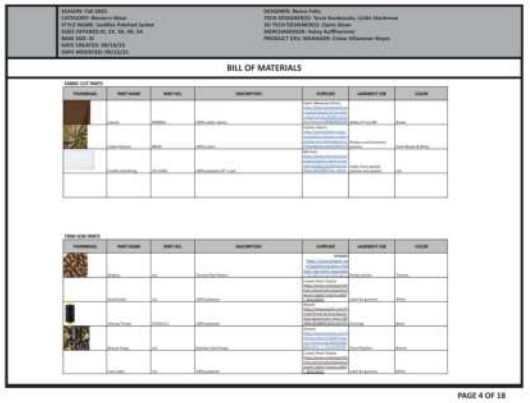
Measurements are graded from a 3X base across XL to 5X, with tolerances per point of measure. Stitch types and seam allowances are called out operation by operation.



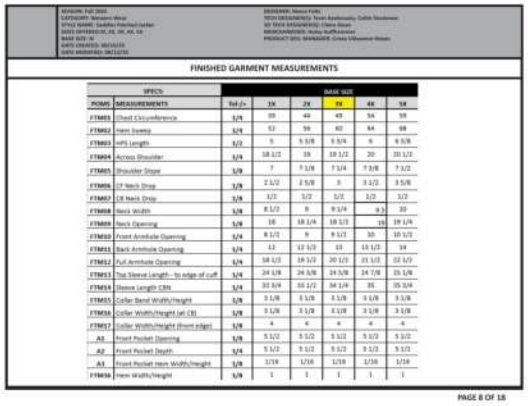
flats / front and back



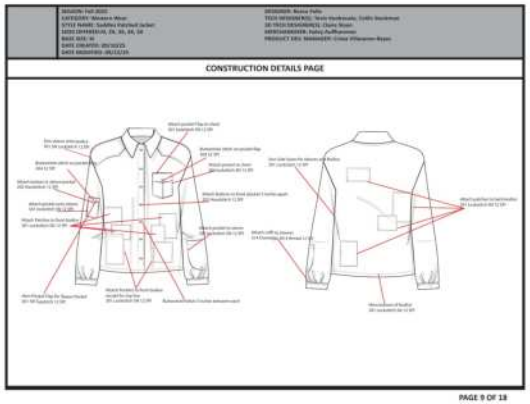
colorways / nine colorways with cmyk values



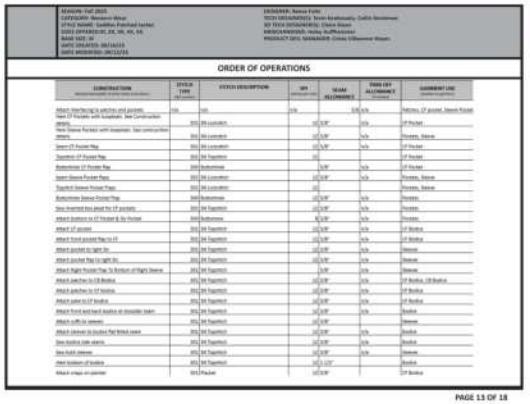
bill of materials / fabric and trim



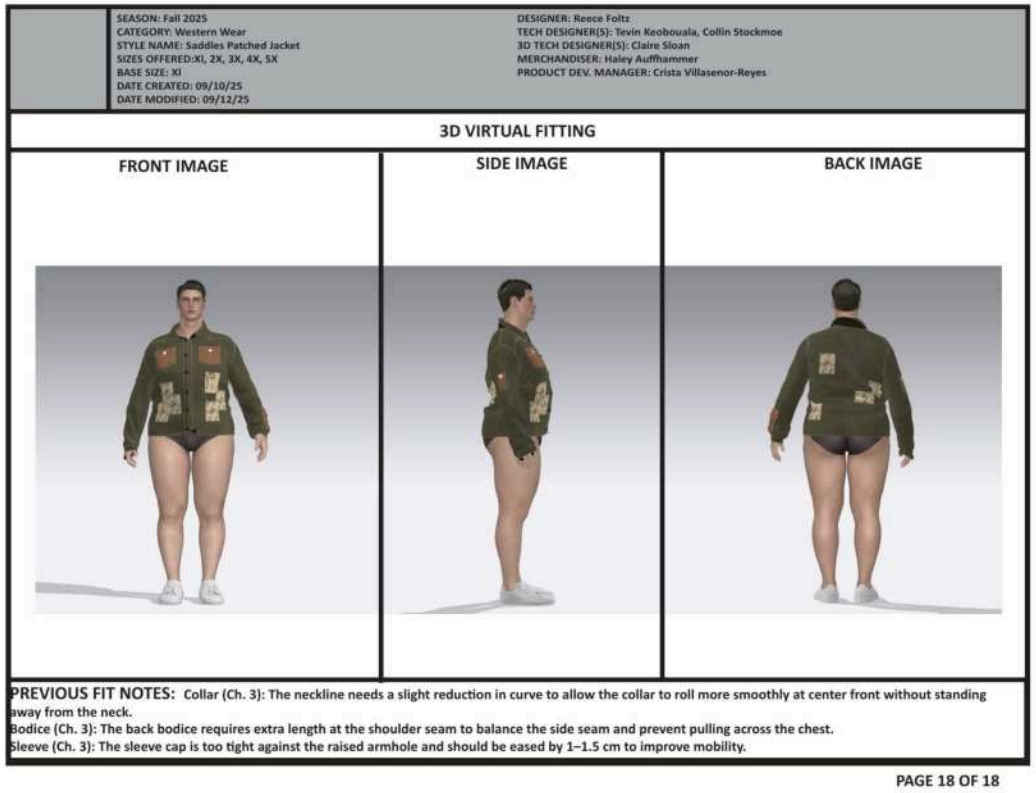
finished measurements / graded xl to 5x with tolerances



construction details / stitch and seam callouts



order of operations / stitch type, spi, seam allowance



3d virtual fitting / front, side, and back in clo 3d, with fit notes

FIT CORRECTIONS

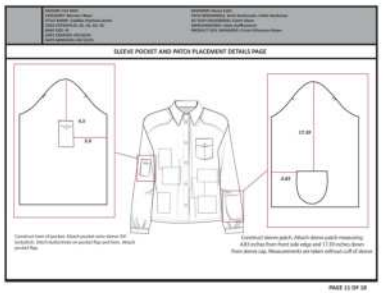
a Collar: reduce the neckline curve so the collar rolls smoothly at center front.

b Bodice: add length at the back shoulder seam to balance the side seam and stop pulling across the chest.

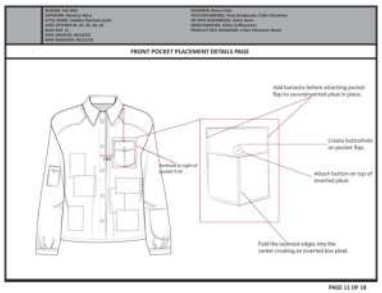
c Sleeve: ease the cap 1 to 1.5 cm against the raised armhole for mobility.



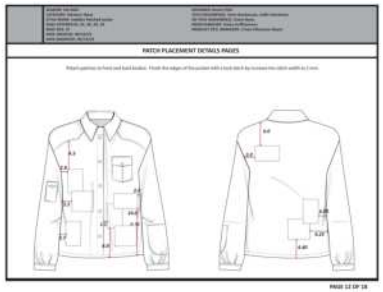
placing patches on the cut panels



sleeve placement / patch and pocket



front pocket / bartacks and box pleat



patch placement / measured from seams



finished samples

02

astra

three-sample fit process and costing

year	2026
course	FTM 415, NC State
role	Designer, tech designer, product developer
material	Donated interior upholstery fabric
tools	Illustrator, CLO 3D, Gerber Accumark

Astra started with a constraint. The fabric was donated upholstery with no stretch and a stiff drape, so every silhouette had to come from what the material could physically do. I took the look through the full development cycle, from sketch to three physical samples, virtual fitting in CLO 3D, and a final garment.

a Bias cuts introduce movement where the fabric would otherwise resist it.

b A kick pleat at the hem gives the stiff skirt room to open with each step.

c Every fit and construction correction was made in the pattern, with physical fittings paired with CLO 3D.



final garment on the form in the sewing lab



concept sketch



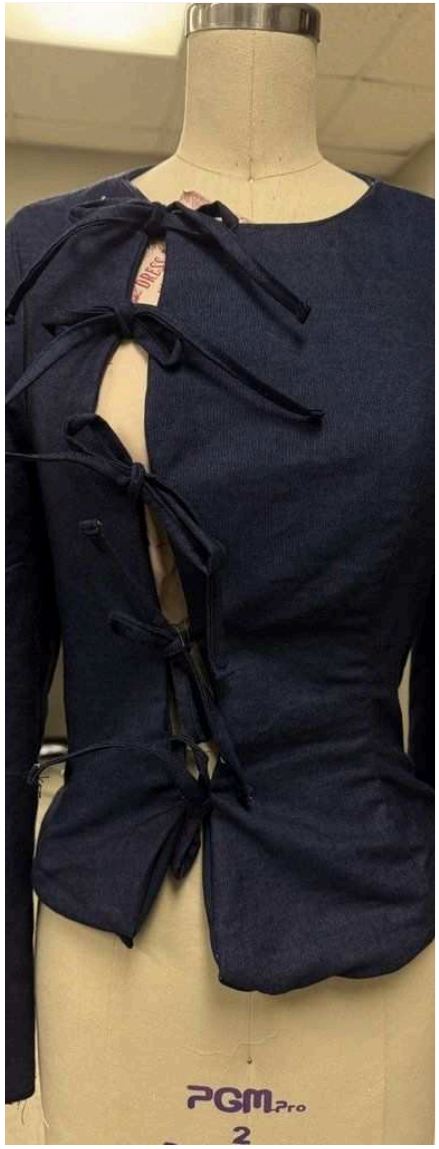
worn, side view



sample 01 / first fit



sample 02 / refit from scratch



sample 03 / final shell



on body / tie closure and kick pleat

PROCESS

Each sample was fitted on the form and on a model, then the pattern was revised and recut before the next sample was sewn. Working this way meant every change was tested at full scale in the real material.

The final look pairs the tie-front top with a bias-cut patchwork skirt. It was developed alongside a costed line sheet and a 15-slide presentation.

COSTING

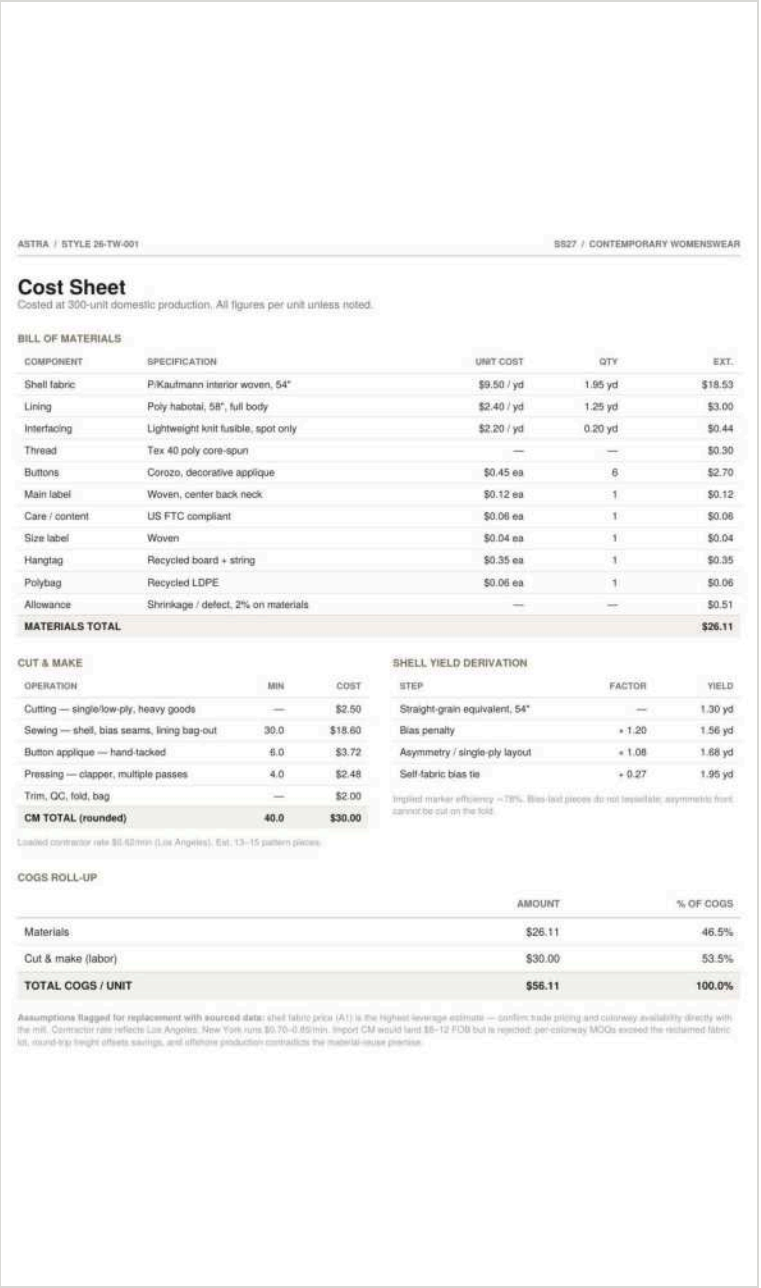
A line sheet and cost sheet built for a 300-unit domestic run.

a Full bill of materials at trade pricing, plus a cut-and-make estimate by operation

b 1.95 yd shell yield derived from the bias penalty and a single-ply asymmetric layout

c $56.11 COGS per unit, 53% of it labor

d XS to XL size curve and a 300-unit allocation across two colorways



ASTRA / STYLE 26-TW-001 SS27 / CONTEMPORARY WOMENSWEAR

Cost Sheet

Costed at 300-unit domestic production. All figures per unit unless noted.

BILL OF MATERIALS

COMPONENT	SPECIFICATION	UNIT COST	QTY	EXT.
Shell fabric	P/Kaufmann interior woven, 54"	$9.50 / yd	1.95 yd	$18.53
Lining	Poly habotai, 58", full body	$2.40 / yd	1.25 yd	$3.00
Interfacing	Lightweight knit fusible, spot only	$2.20 / yd	0.20 yd	$0.44
Thread	Tex 40 poly core-spun	—	—	$0.30
Buttons	Corozo, decorative applique	$0.45 ea	6	$2.70
Main label	Woven, center back neck	$0.12 ea	1	$0.12
Care / content	US FTC compliant	$0.06 ea	1	$0.06
Size label	Woven	$0.04 ea	1	$0.04
Hangtag	Recycled board + string	$0.35 ea	1	$0.35
Polybag	Recycled LDPE	$0.06 ea	1	$0.06
Allowance	Shrinkage / defect, 2% on materials	—	—	$0.51
MATERIALS TOTAL				**$26.11**

CUT & MAKE

OPERATION	MIN	COST
Cutting — single/low-ply, heavy goods	—	$2.50
Sewing — shell, bias seams, lining bag-out	30.0	$18.60
Button applique — hand-tacked	6.0	$3.72
Pressing — clapper, multiple passes	4.0	$2.48
Trim, QC, fold, bag	—	$2.00
CM TOTAL (rounded)	**40.0**	**$30.00**

Loaded contractor rate $0.62/min (Los Angeles). Est. 13–15 pattern pieces.

SHELL YIELD DERIVATION

STEP	FACTOR	YIELD
Straight-grain equivalent, 54"	—	1.30 yd
Bias penalty	× 1.20	1.56 yd
Asymmetry / single-ply layout	× 1.08	1.68 yd
Self-fabric bias tie	+ 0.27	1.95 yd

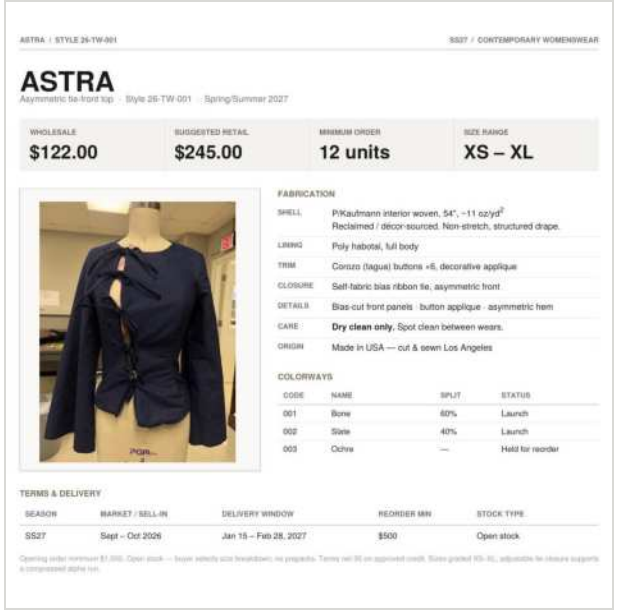
Implied marker efficiency ~78%. Bias-laid pieces do not lay flat; asymmetric front cannot be cut on the fold.

COGS ROLL-UP

	AMOUNT	% OF COGS
Materials	$26.11	46.5%
Cut & make (labor)	$30.00	53.5%
TOTAL COGS / UNIT	**$56.11**	**100.0%**

Assumptions flagged for replacement with sourced data: shell fabric price (A1) is the highest-leverage estimate — confirm trade pricing and colorway availability directly with the mill. Contractor rate reflects Los Angeles. New York runs $0.70–0.85/min. Import CM would land $8–12 FOB but is rejected: per-colorway MOQs exceed the reclaimed fabric lot, round-trip freight offsets savings, and offshore production contradicts the material-reuse premise.

cost sheet / bom, cut and make, shell yield, cogs



ASTRA / STYLE 26-TW-001 SS27 / CONTEMPORARY WOMENSWEAR

ASTRA

Asymmetric tie-front top · Style 26-TW-001 · Spring/Summer 2027

WHOLESALE	SUGGESTED RETAIL	MINIMUM ORDER	SIZE RANGE
$122.00	$245.00	12 units	XS – XL

FABRICATION

SHELL	P/Kaufmann interior woven, 54", ~11 oz/yd². Reclaimed / décor-sourced. Non-stretch, structured drape.
LINING	Poly habotai, full body
TRIM	Corozo (tagua) buttons ×6, decorative applique
CLOSURE	Self-fabric bias ribbon tie, asymmetric front
DETAILS	Bias-cut front panels · button applique · asymmetric hem
CARE	**Dry clean only.** Spot clean between wears.
ORIGIN	Made in USA — cut & sewn Los Angeles

COLORWAYS

CODE	NAME	SPLIT	STATUS
001	Bone	60%	Launch
002	Slate	40%	Launch
003	Ochre	—	Held for reorder

TERMS & DELIVERY

SEASON	MARKET / SELL-IN	DELIVERY WINDOW	REORDER MIN	STOCK TYPE
SS27	Sept – Oct 2026	Jan 15 – Feb 28, 2027	$500	Open stock

Opening order minimum $1,000. Open stock — buyer selects size breakdown; no prepacks. Terms net 30 on approved credit. Sizes graded XS–XL; adjustable tie closure supports a compressed alpha run.

line sheet / fabrication, colorways, terms



ASTRA / STYLE 26-TW-001 SS27 / CONTEMPORARY WOMENSWEAR

Margin & Assortment Plan

300-unit initial buy · 2 colorways at launch · 10 SKUs

MARGIN WATERFALL

STAGE	VALUE	MULTIPLIER	MARGIN $	MARGIN %
COGS	$56.11	—	—	—
Wholesale	$122.00	2.17× on COGS	$65.89	54.0%
Suggested retail	**$245.00**	**2.01× on WS**	**$123.00**	**50.2%**

Realized margin modeled at 75% full-price / 25% liquidated at 40% off. (0.75 × $122.00) + (0.25 × $73.20) = $109.80 realized. **49.9% realized gross margin.** A 2.00× multiple @12 wholesale realizes 44.3% and does not absorb sales commission (15–18%), sampling amortization (3–5%), market week (2–4%), and chargebacks (2–5%).

SIZE CURVE

SIZE	% OF BUY	UNITS
XS	10%	30
S	24%	72
M	30%	90
L	23%	69
XL	13%	39
TOTAL	100%	300

ALLOCATION GRID — 300 UNITS

COLORWAY	XS	S	M	L	XL	TOTAL
001 Bone (60%)	18	43	54	41	24	180
002 Slate (40%)	12	29	36	28	15	120
TOTAL	30	72	90	69	39	300

Smallest cell 12 units (Slate · XS), above the ~10–12 unit domestic viability floor. A third launch colorway would drive the smallest cell to 8 units and is therefore held for in-season reorder.

BUY ECONOMICS AT PLAN

METRIC	VALUE	CALCULATION
Total units	300	180 Bone + 120 Slate
SKU count	10	5 sizes × 2 colorways
Total COGS	$16,833	300 × $56.11
Wholesale revenue at plan	$36,600	300 × $122.00
Gross margin at plan	$19,767	$36,600 − $16,833
Retail sell-through value	$73,500	300 × $245.00
Shell fabric required	585 yd	300 × 1.95 yd

585 yards across two colorways must be confirmed available in a single dye lot — direct mills can shorter lots than apparel mills and a shade-match mill buy is a live risk. Recommended sequence: sell in at 75% of plan (210 units), cut 242 committed + 15% at once buffer), and release the balance only against confirmed reorder.

margin and assortment / size curve, allocation

03

links jacket

curved panels, concealed hardware

year	2025
course	FTM 415, NC State
role	Designer, constructor
detail	Magnetic snap closures

An outerwear jacket in tans, deep greens, and warm neutrals, built from curved color-block panels and designed as a matching set with a coordinating bottom.

a The curves push against the straight seam lines typical of outerwear, which took careful drafting and precise clipping at every panel transition.

b Magnetic snaps are interfaced into the lining beneath the placket, keeping the face fabric smooth.

c With no visible hardware, the color blocking reads as one continuous surface from the outside.



front



back



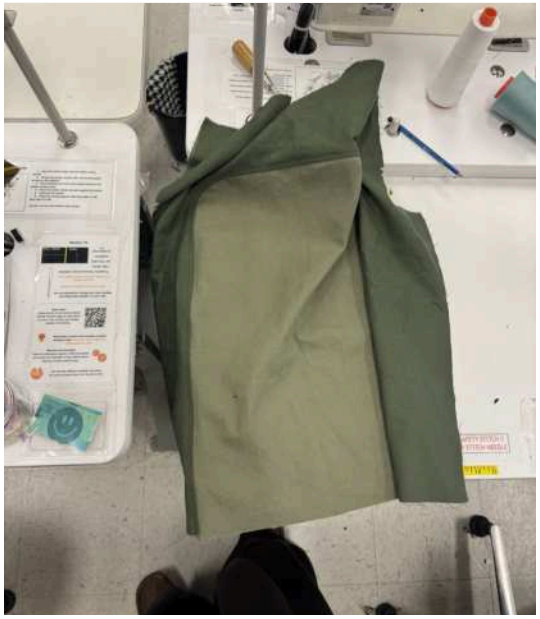
side



drafted pattern / curved panel pieces laid out before cutting



cut layout / panels on the table



assembly / joined color blocks



magnetic snaps / set into the lining

04

slipz

performance underscrub concept

year	2026
course	FTM 310, Entrepreneurship and New Product Development in Textiles
role	Product manager, designer, creative
tools	Adobe Illustrator

Healthcare workers spend 10 to 12 hour shifts lifting, bending, and moving with very little structural support from what they wear. Slipz is a performance underscrub that treats the garment as a support system, designed around posture, physical strain, and long-term comfort.

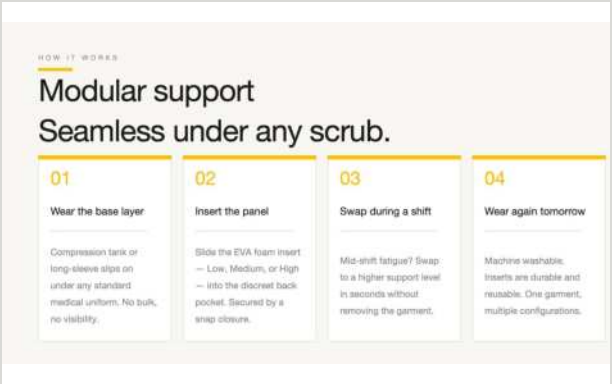
a Interchangeable foam support panels for low, medium, and high physical demand

b Breathable compression that layers under any standard scrub

c Carried past the garment into sourcing, personas, pricing, and branding



problem



how it works / modular panels



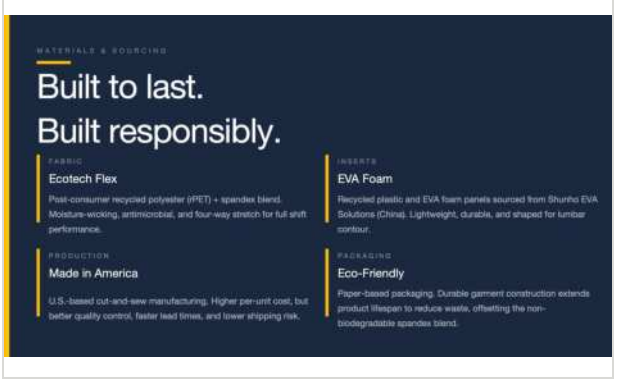
technical flats



flats / insert panel and pocket detail



user personas



materials and sourcing

05

liminal space

knit, print, and woven design

year	2024
course	FTM 217 / FTM 271, Computer-Aided Textile Design
software	NedGraphics

A textile design portfolio built around liminal space: the uncanny threshold between where you've been and where you're going. The motifs come from everyday objects of the recent past, like VHS tapes, rotary phones, CDs, disposable cameras, and phone booths. They feel familiar and already gone.

a 4 knit, 3 print, and 3 woven designs, each carried to a finished tech pack

b Each object redrawn as a vector illustration

c Simplified until it could hold up as a repeating motif

d Some reduced to outline only, so they could work as woven structures



Concept Board

concept board



Color Board

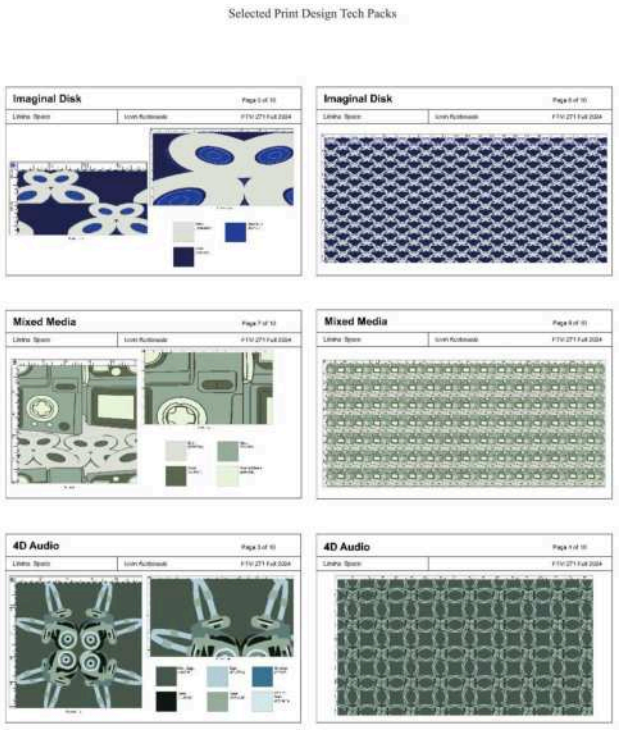
color board



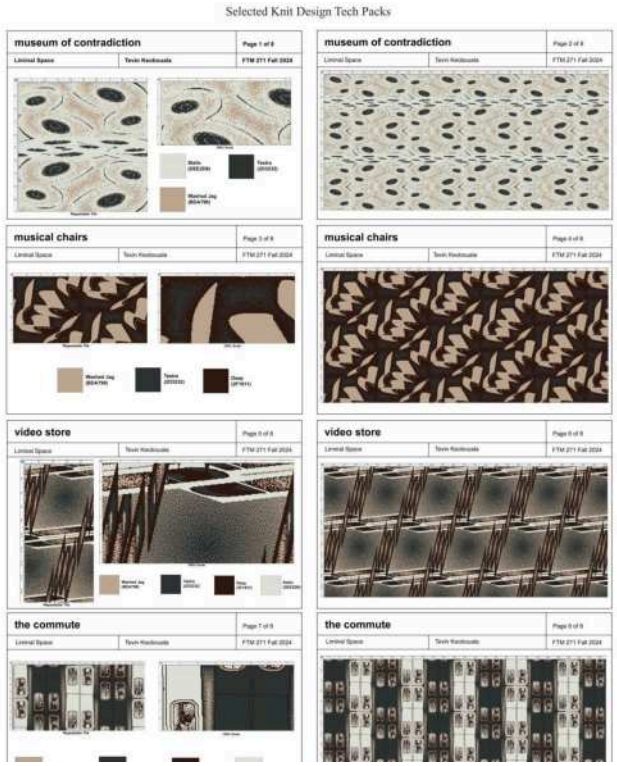
selected objects



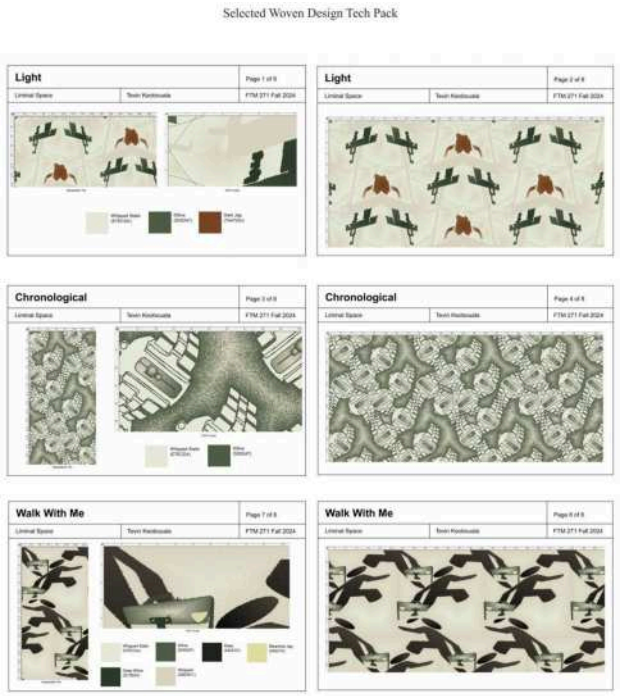
transformed illustrations / object to motif



print / imaginal disk, mixed media, 4d audio

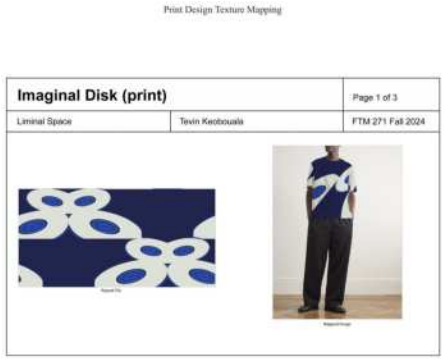


knit / museum of contradiction, musical chairs, video store, the commute



woven / light, chronological, walk with me

Each design was carried through to a tech pack with colorways, then mapped onto a garment to test how the repeat reads at body scale.



texture mapping / imaginal disk print



texture mapping / commute sweater

06

range backpack

volume from a flat pattern

year	2024
course	FTM 219, NC State
material	Olive duck canvas, leather, nylon webbing
pattern	20+ drafted pieces

A roll-top backpack built from scratch around clean construction, hardware details, and functional carry. The whole bag was drafted flat as a set of front, back, and lining pieces, then assembled into a volume that holds its shape.

a Roll-top closure with leather strap and buckle hardware

b Front zipper pocket with tonal zipper tape

c Side loop pockets sized for a water bottle

d Padded back panel with adjustable nylon shoulder straps



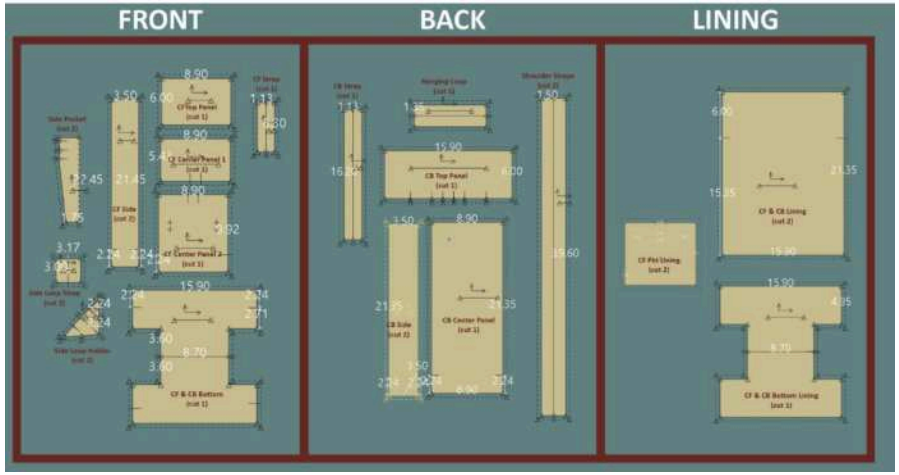
front



back



in use / shoes clipped to the side



pattern / front, back, and lining pieces

07a

reworked denim knot bag

2024 / upcycled accessory / raw denim

Made from the hem offcuts of a Kraftwork UNiFORM NO.5 Baggy J Cut. The jeans have an asymmetrical J-shaped hem, so the offcuts came out as trapezoids. Two were seamed together to form the bag body, and the tubular hem sections became the straps. The original diagonal raw seamline runs straight through the finished bag, keeping the geometry of the source garment visible.



source / j-cut jeans



result / knot bag



detail / raw seamline through the body

07b

camp collar shirt

2024 / garment construction / heavyweight flannel

A camp collar shirt in green heavyweight flannel, cut and sewn by me. The stitch detail on the back was made by running a 301 lockstitch machine back and forth across the fabric. Inside, a hand-embroidered label shows a tree with my initials.



front



back stitch detail



cutting / collar from the pattern

08

boston patchwork

taking an object apart to rebuild it

year	2023
base	Suede Birkenstock Boston
technique	Machine sewing

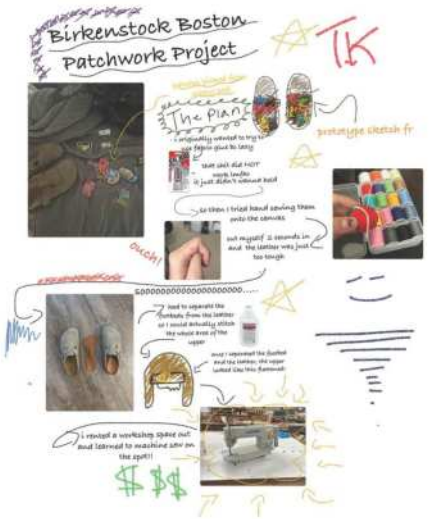
Vintage souvenir patches from a thrift store, chosen for color, shape, and the randomness of where they had been, then composed across both uppers to balance the layout.

a Fabric glue couldn't hold on suede.

b Hand sewing failed because the leather was too tough.

c I separated the uppers from the footbed entirely to reach the full surface.

d I rented workshop space and learned to machine sew on the spot.



process sheet / the plan and what went wrong



finished pair



top view / patch composition



worn

09

desert tower at dusk

footwear color concept

year	2026, for a FW27 season
type	Independent footwear color concept
role	Color direction and presentation

Banded sandstone, juniper on the approach, and the violet hour when the rock still holds the day's heat. This study translates a day of desert tower climbing in the American Southwest into three colorways for the Arc'teryx Konseal.

- 60 Core / umber and night sky
- 30 Seasonal / terracotta and juniper
- 10 Statement / dusk violet



color board / palette, three colorways, component notes, and development next steps

Independent concept. Not affiliated with or endorsed by Arc'teryx.

10

beyond the studio

styling and editorial

Outside of making, I direct and write for publications and research fashion history.

a **Reframe Magazine**, editorial director and writer, Issues 01 and 02

b **Platform Magazine**, stylist for "Objects in Motion," Vol. XV, and writer, Vol. XVII

c **tshirts.archives**, archive and content research

d **Punch Buggy**, music writing and site management



objects in motion / platform magazine, vol. xv, 2024, styling



from greensboro to the garment district / reframe, issue 01



reframe, issue 01 / spread



THANK YOU

tevin keobouala

EDUCATION

North Carolina State University, Wilson College of Textiles
B.S. Fashion and Textile Management, Fashion Development and Product Management, expected December 2026

TECHNICAL DESIGN

Tech packs, spec sheets, grading, fit sessions and fit corrections, stitch and seam specs, flat patternmaking, markers and yield, BOMs and costing, knit CAD

CONSTRUCTION

Industrial sewing (301, 304, 514), draping, outerwear and bag construction, hardware and closures

SOFTWARE

Adobe Illustrator, Gerber AccuMark, CLO 3D, Photoshop, Excel, NedGraphics

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