

MD. Shakibul Islam

AI FASHION ENGINEER

Digital Product Development Leader

CONTACT

- +8801721815494
- hello@shakibulislam.com

shawn0172181@gmail.com
- linkedin.com/in/shakib3d
- Dhaka, Bangladesh
- threadpack.com
- fast3dfashion.com
- shakibulislam.com

CAREER METRICS

10+

YEARS
EXPERIENCE

2K+

DIGITAL
GARMENTS

400+

STYLES
MANAGED
YEARLY

500+

DIGITAL
MATERIALS

100+

PROFESSIONALS TRAINED

SOFTWARE & TOOLS

FASHION TECHNOLOGY

- CLO3D
- Style3D
- Shima Seiki APEX
- Marvelous Designer
- VStitcher
- MYR Look Customizer
- Vizoo

PATTERN & CAD

- Lectra Modaris
- BOK CAD
- Pattern Grading
- DXF Workflow

AI & LLMs

- Claude
- Gemini
- ChatGPT
- Ollama / Qwen
- Flux
- AI Workflow Design

DEVELOPMENT

- Next.js
- Firebase
- HTML & CSS
- AI-Assisted Dev

CREATIVE & 3D

- Photoshop
- Illustrator
- Substance Sampler
- Cinema4D
- DAZ Studio
- Premiere Pro

LEADERSHIP PHILOSOPHY

“Train people instead of solving every problem myself.”

— CORE LEADERSHIP PRINCIPLE

AI VISION

Agentic AI will become every designer's intelligent partner — augmenting creativity, accelerating workflows, and transforming the future of apparel product development.

AI FASHION ENGINEER · DIGITAL PRODUCT DEVELOPMENT LEADER · DIGITAL TRANSFORMATION SPECIALIST · FOUNDER

Assistant Manager — Digital Product Development · Cobalt Fashion (BD) Ltd., Fung Group · Dhaka, Bangladesh

EXECUTIVE SUMMARY

Transformative AI Fashion Engineer and Digital Product Development Leader with 10+ years driving technology adoption, workflow innovation, and organizational capability at the intersection of fashion manufacturing, 3D virtual sampling, and artificial intelligence. Proven record of translating complex technical systems into measurable commercial outcomes — compressing development timelines, eliminating physical sampling costs, and enabling buyer confidence through digital precision.

Brings rare cross-disciplinary depth across knitwear engineering, Shima Seiki APEX programming, CLO3D and Style3D virtual sampling, generative AI integration, and full-stack SaaS product architecture. Leads by building systems, training teams, and establishing scalable standards. Seeking a Director of Digital Transformation, Head of Fashion Technology, or VP of Product Development role where AI strategy, process innovation, and people leadership intersect.

CORE COMPETENCIES

Digital Product Development

Digital Transformation

AI Integration

Generative AI

Agentic AI

Virtual Sampling

3D Digital Twin

Tech Pack Development

PLM & Workflow Automation

SOP Development

Cross-functional Leadership

Material Digitization

Pattern Engineering

Process Innovation

Team Capability Building

Product Lifecycle Management

PROFESSIONAL EXPERIENCE

Assistant Manager — Digital Product Development

APR 2025 – PRESENT

Cobalt Fashion (BD) Ltd. · Fung Group · Dhaka, Bangladesh

LEADERSHIP & TRANSFORMATION

– Lead digital product development strategy across a ~50–60 person division, setting organizational standards for 3D workflow execution, tech pack quality, and AI-assisted product development.

– Drive enterprise-wide digital transformation by embedding virtual sampling, generative AI tools, and structured workflow documentation as core operational standards across design, merchandising, and sourcing functions.

– Champion a capability-first leadership model — building team competency through structured training and SOPs rather than creating individual dependency.

BUSINESS IMPACT

– Directed Target Grade Size Approval (GSA) digital validation for plus-size ranges, enabling buyer approvals without physical samples and accelerating go-to-market lead times.

– Led AI-assisted collection development for System U that contributed to approximately 20,000 garment orders — directly linking digital product innovation to commercial revenue at scale.

Senior Digital Product Developer

APR 2023 – APR 2025

Cobalt Fashion (BD) Ltd. · Fung Group · Dhaka, Bangladesh

PROCESS INNOVATION

– Re-engineered the curved jacquard digital workflow, reducing production time from 8–9 hours to approximately 2.5 hours — a 70%+ efficiency gain — and standardized the process across the team for consistent multi-colorway rendering.

– Built a reusable digital material library of 500+ assets using Vizoo physical-to-digital scanning, eliminating duplicated digitization effort and accelerating all subsequent style development.

CAPABILITY BUILDING

– Trained the team on the re-engineered jacquard workflow and broader 3D virtual sampling standards, contributing to 100+ professionals upskilled across Bangladesh's apparel manufacturing sector.

– Identified and communicated end-user workflow gaps that led to measurable improvements in the organization's internal co-creation and product review platform.

Digital Product Developer

JUL 2018 – APR 2023

Cobalt Fashion (BD) Ltd. · Fung Group · Dhaka, Bangladesh

– Established the organization's core digital product development capability from the ground up — introducing CLO3D, Style3D, and Shima Seiki APEX as the primary tools for virtual sample delivery.

– Contributed to 2,000+ digital garment developments across knitwear, outerwear, and casualwear; personally managing 400+ styles per year across key international buyer programs.

– Authored comprehensive 3D workflow SOPs and documentation that became the operational foundation for the expanding digital team.

– Built a physical-to-digital material conversion pipeline using Vizoo scanning, creating the reusable library that ultimately reached 500+ digital materials.

– Collaborated cross-functionally with design, merchandising, and sourcing teams to align virtual samples with buyer specifications, reducing revision cycles and physical sample dependency.

CERTIFICATIONS & TRAINING

- CLO3D Official In-house Training**
3-Day Intensive · CLO Virtual Fashion
- Shima Seiki APEX (Shima Navi)**
Knitwear CAD Programming
- Shima Seiki Embroidery Training**
Advanced Embroidery Programming
- Shima Seiki Dobby Training**
Dobby Fabric CAD
- Lectra Garments CAD**
NITER · Pattern Making & Grading
- Lectra Modaris Pattern Making**
Industrial Pattern Development
- BOK CAD Pattern Making**
Garment Pattern Engineering
- Digital Streetwear Design**
CLO3D + Cinema4D Pipeline
- 3D Modeling**
Maya · Substance Painter · KeyShot · Premiere Pro

INDUSTRIES SERVED

- SweaterKnitwearWoven
- DenimCut & Sew Knit
- Buying HousePrivate Label
- Fashion SaaS

LANGUAGES

- BengaliNATIVE
- EnglishPROFESSIONAL

AI & DEVELOPMENT STACK

- Gemini APIClaude API
- DeepSeekOllama / Qwen
- Flux / SDXLNext.js 14
- FirebaseFirestoreRTX 3080
- Local AI Server

AWARDS & RECOGNITION

- Long Service Award (Gold Medal)**
Cobalt Fashion (BD) Ltd. · Fung Group
Awarded in recognition of long-term dedication, consistent performance, and contribution to digital product development and organizational growth.
- Target Accredited CLO Business Partner**
Cobalt Fashion (BD) Ltd. · 2025
- Best Visual Merchandising**
Cobalt Design Competition 2024

AI INFRASTRUCTURE

Architect and maintain a self-hosted RTX 3080 local AI server — enabling generative AI inference, model fine-tuning, and image generation fully independent of cloud APIs.

PROFESSIONAL EXPERIENCE — CONTINUED

Sample Assistant

JUN 2014 – NOV 2014

Tusuka Denim Ltd. · Dhaka, Bangladesh

- Supported denim sample development and quality control, building hands-on expertise in garment construction specifications, tech pack documentation, and buyer communication standards.
- Developed a practical understanding of manufacturing-to-buyer workflows that continues to inform the commercial precision brought to digital product development today.

Freelance Digital Fashion Specialist

2013 – 2018

Upwork · Remote · International Clients

- Delivered 3D garment development, tech pack creation, and pattern services to international clients across North America, Europe, and Asia, building an independent client portfolio while developing core skills in parallel.
- Strengthened client management, scoping, and remote delivery capabilities that directly underpin the founder mindset applied to ThreadPack and Fast3DFashion today.

ENTREPRENEURIAL VENTURES

ThreadPack.com

FOUNDER & PRODUCT ARCHITECT

AI-Powered Fashion SaaS Platform · threadpack.com · Development Started: Late 2025 · Live SaaS Platform

- Architected and shipped a full-stack AI SaaS platform enabling designers and buying houses globally to generate professional tech packs, flat sketches, measurement guides, and print designs via AI — compressing creation from hours to minutes.
- Core product modules: AI Tech Pack Generator, AI Flat Sketch, AI Measurement Guide, AI Print Design Engine, modular Component Library, and end-to-end Workflow Automation.
- Full-stack infrastructure built on Next.js 14, Firebase, Gemini API, Firestore vector search, DeepSeek grading logic, and a self-hosted RTX 3080 local AI image generation server.
- Developed enterprise sales pipeline targeting accounts managing 4,000+ tech packs per year; engineered a flagship "Clone & Re-grade" feature that replaces 45 minutes of manual Excel work with 90 seconds of AI-assisted execution.

Fast3DFashion.com

FOUNDER | AI FASHION ENGINEERING STUDIO

AI Fashion Engineering Studio — Knitwear Specialty · fast3dfashion.com · 2022 – Present

- Founded a specialist 3D fashion studio delivering photorealistic virtual knit samples, complete tech packs, and AI-generated on-model marketing imagery to international brands using Shima Seiki APEX and CLO3D.
- Service model spans virtual sampling, digital product development, and AI-assisted marketing content — targeting US and UK independent brands and DTC labels with tiered USD pricing.

FastPDFEdit.com

SIDE PROJECT

AI Document Automation Tool · 2024 – Present

- Built an AI-powered document editing and automation tool, extending full-stack product development experience beyond fashion into business productivity software.

EDUCATION

M.Sc. in Fashion Design

BGMEA University of Fashion & Technology (BUFT)
Completed · Certificate Pending · CGPA: 3.34 / 4.00

B.Sc. in Textile Engineering

Daffodil International University
CGPA: 3.69 / 4.00

Diploma in Textile Engineering

BCMC College of Engineering & Technology
Specialization: Garments Design & Pattern Making · CGPA: 3.78 / 4.00

SSC — Science

Nowpara High School
GPA: 4.31 / 5.00

PROFESSIONAL TRAINING

CLO3D In-house (3 Days)	Shima Seiki APEX
Shima Seiki Embroidery (1 Day)	Shima Seiki Dobby (2 Days)
Lectra CAD – NITER (2 Months)	Lectra Modaris – Pattern
BOK CAD – Pattern Making	Digital Streetwear Design
3D Animation – Maya · Substance Painter · KeyShot · Premiere Pro	

SELECTED BUSINESS IMPACT

- 70%+

Reduction in curved jacquard digital production time — from 8–9 hours to ~2.5 hours — through a re-engineered, team-wide workflow that also standardized multi-colorway rendering.
- 20,000+

Garment orders attributed to AI-assisted collection development for System U, demonstrating a direct commercial return on digital transformation investment.
- 100+

Apparel professionals trained on 3D virtual sampling, AI-assisted product development, and digital workflow standards across Bangladesh's manufacturing sector.
- 500+

Reusable digital material assets built via Vizoo scanning into a standardized library — eliminating duplicated effort and accelerating every subsequent digital style development.