

Shimra Jaime Fine

Textile Consultant / Designer / Prototyper

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Background:

I am a Soft Goods Consultant with 17 years of experience in textile science, wearable technology, clothing construction, design methodology, textile selection, rapid prototyping, garment design, and garment construction. I have extensive experience collaborating with cross-functional teams of designers, engineers, and industry partners. I am known for improving efficiencies and contributing to high-impact projects in military, medical, and artistic textile applications. I am so passionate about my vocation that I have my own prototyping studio equipped with domestic sewing machines, an industrial sewing machine, a serger, a 3D printer, and more. If you wish to see samples of my work, the link above will take you to my temporary portfolio website while my main website is under construction.

Experience:

September 2024-Present

Soft Goods Consultant

Freelancer

- Developed a new washability assessment protocol for HeroWear, training staff on standardized procedures to improve durability and user experience.
- Conducting product development (including pattern drafting) for two lower back exosuit products under NDA, ensuring precision fit and user comfort in functional prototypes.
- Performing textile formulation testing under NDA, to advance electronic integration in soft goods.

October 2022-Present

Textile and Research Consultant

Civil-Military Innovation Institute (Nashville, TN)

- Designed and prototyped rope burn-resistant gloves for military applications, including pattern drafting, grading, and tech pack creation to support streamlined manufacturing.
- Led materials sourcing and manufacturer collaborations for the redesign of LZ panel markers.
- Improved due-diligence report times by 65% through innovative research techniques, ensuring timely project completion for high-stakes military equipment.

June 2019-September 2024

Soft Goods Prototyper and Product Manager

Vanderbilt University (Nashville, TN)

- Worked on a million-dollar project for the US Army making several back exosuits for Soldiers and integrated an exosuit into an Army uniform.
 - Involved heavy interaction with the end users in the form of trials, focus groups, surveys, etc.
- Developed a calf sleeve and shoe attachment method for an Achilles tendon exoskeleton.
- Developed a fNIRS headcap for monitoring the brain activity in elderly populations during heart surgery to track possible causes of post-operative delirium and a fNIRS headband for tracking ADHD in children.
- Worked on multiple high-impact projects, such as a million-dollar Pathfinder project creating exosuits for the military and smart headbands for monitoring brain activity in children with ADHD.
- Served as project manager for the process of transferring the research from a million-dollar Pathfinder project to an external industry partner.
- Listed as an inventor on 7 exosuit patents. Several of my patents have been licensed by a local exosuit company.

May 2022-January 2023

Soft Goods Design Consultant

Tactical AF LLC

- Designed, patterned, and prototyped a nursing t-shirt for military use, gaining visibility from Shark Tank producers, highlighting adaptable solutions for unique-end user needs.
- Comprehensively created and maintained design prototype documentation and pattern library.
- Determined most cost-efficient layouts of pattern pieces (markers).

September 2017-May 2019

Textile Lead

Wearable Biosensing Lab (Narragansett, RI)

- Created gloves and shoe insoles with piezo-resistive sensors for monitoring the symptoms of patients with Parkinson's disease.
- Created a capacitive stretch sensor out of a knee-brace and conductive fabric and integrated it into a Soldier's trousers for monitoring knee injuries.
- Created capacitive pressure sensors out of conductive fabric and various spacer dielectric materials and integrated them into a mattress topper for monitoring sleep patterns.
- Worked on a program intended to prevent self-driving cars from hitting bicyclists.
- Had work featured in a TEDx Presentation. <https://www.youtube.com/watch?v=SmTcKITQN0A>

2009-2016

Freelance Costume Shop Manager and Designer

Over 30 Design and Assistant Design Credits Across the Country

- Worked in design studios, created mood boards and costume sketches to convey design concepts to directors, design teams, shop managers, and stitchers (Photoshop, Illustrator, Clip Studio Paint, etc.).
- Managed pattern libraries, costume stock, and materials inventory to ensure successful productions under very tight time constraints (as little as two weeks per show).
- Handled complex patterning challenges, including intricate dancewear and period pieces; and determined most cost-efficient layouts of pattern pieces (markers) for hundreds of builds.

Education:

MS in Textile Science, Focus in Medical Textiles

University of Rhode Island, Narragansett, Rhode Island, 2019

- Awarded a Graduate Assistantship, served as a mentor for undergraduates.
- Courses in CAD Pattern-Drafting (Modaris, similar to Optitex)
- Thesis on textile-based capacitive pressure sensors

BFA in Costume Design

Savannah College of Art and Design, Savannah, Georgia, 2013

- Courses in costume rendering, garment construction, patterning, color theory, and design methodologies.
- Awarded a scholarship.

Pre-College Program in Fashion Design

Rhode Island School of Design, Providence, Rhode Island, 2008

- Courses in mood boards, garment construction, fashion flats, and fashion renderings.

Google Certificate in Project Management

January 2024

Awards:

Advanced Textiles Association Competition

3rd Place in Advanced Textiles for a Posture Monitoring Shirt

One Ovation Award and Four Nominations

Outstanding Costume Design from the Savannah College of Art and Design

KCACTF Nomination

Nominated for Award for Theatrical Design Excellence in Costumes from the Kennedy Center

Software Skills:

Modaris (CAD Pattern-Drafting), Photoshop, Illustrator, InDesign, Procreate, Clip Studio Paint, SolidWorks, Google Sketchup, Fusion 360, Word, Excel, PowerPoint, G-Suite, Asana

Technical Skills:

BOMs, Tech Packs, Technical Flats, Flat Patterning, Draping, 3D Printing, Fabric Dyeing, Materials Selection and Sourcing, Budget Management, Textile Testing (ASTM and AATCC Standards), Sewing with Domestic and Industrial Machines, Rapid Prototyping, Design Sketches and Renderings, Digital Renderings, Mood Boards, Screen Printing, Embroidery