

# Eleanor Aguirre

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## SUMMARY

Detail-oriented Textile Engineer with over 6 years in weaving construction and saree design. Proven expertise in developing scalable designs and optimizing production processes through technical textile knowledge. Adept at collaborating with production teams and weavers to ensure quality outcomes and efficient workflows across various textile projects. Strong background in weaving logic and jacquard programming, essential for translating design ideas into loom-ready outputs. Committed to enhancing product quality and pioneering innovative textile solutions that resonate with market demands.

## EXPERIENCE

### Textile Engineer

June 2022 - Present

Weaving Innovations Inc.

Houston, TX

Oversaw textile engineering projects focusing on saree designs, incorporating both traditional and modern techniques. Coordinated efforts between design and production teams, prioritizing scalability and quality.

- Developed innovative weaving construction logic for saree designs, improving production efficiency by 30%.
- Designed modular saree architecture, enabling repeatable design systems that enhanced scalability across collections.
- Translated complex design concepts into loom-ready formats using CAD and jacquard programming, reducing lead time by 20%.
- Analyzed warp and weft behaviors to optimize fabric outcomes, achieving desired weight distribution and structural balance.
- Collaborated with production teams to troubleshoot design challenges, ensuring high-quality fabric samples for market introduction.
- Led training sessions for weavers on new loom technologies, enhancing their operational capabilities.

### Junior Textile Engineer

March 2019 - May 2022

Textile Solutions Ltd.

Austin, TX

Participated in the design and development of diverse textile products. Engaged with cross-functional teams to assess feasibility and quality standards.

- Assisted in the design and development of saree fabric, focusing on weave structures and fabric performance.
- Evaluated loom feasibility and selected appropriate technologies for various projects, achieving optimal production results.
- Conducted hands-on testing of fabric samples, ensuring compliance with industry standards and customer expectations.
- Participated in planning and executing pick structures for saree production, improving workflow efficiency.
- Collaborated with textile mills and weavers to refine fabric quality and address production challenges.
- Documented and presented findings on fabric behavior and material sensitivity to enhance team knowledge.

### Research Assistant

January 2017 - February 2019

Textile Research Group

San Antonio, TX

Contributed to research projects aimed at advancing textile methodology and education. Collaborated closely with faculty to deliver informative presentations.

- Conducted research on saree construction methodologies, contributing to the development of new design frameworks.
- Assisted in evaluating loom technologies and their suitability for specific saree designs, focusing on traditional and modern techniques.
- Supported the creation of educational materials for workshops on weaving principles and design strategies.
- Analyzed fabric properties using CAD tools, enhancing the understanding of textile performance metrics.
- Collaborated with faculty and peers to present research findings at textile conferences, receiving recognition for innovative approaches.

## LEADERSHIP & AWARDS

- Dean's List (2015, 2016)

## EDUCATION

### Bachelor's Degree in Textile Engineering

2016

University of Texas at Austin GPA: 3.85

Austin, TX

**Coursework:** Weaving Technology, Fabric Structure, Textile Chemistry, Design Methodologies

## CERTIFICATIONS

- Certified Textile Technician 📅 2021

## TECHNICAL SKILLS

- **Weaving Tools:** NedGraphics, Textronics, Jacquard Programming

- **Loom Technologies:** Jacquard Looms, Dobby Looms, Traditional Looms
- **Fabric Testing Methods:** Physical Tests, CAD Simulations, Benchmarking Standards
- **Production Strategies:** Design Planning, Workflow Optimization, Capacity Management
- **Sampling Techniques:** Prototype Development, Material Sampling, Feedback Loops
- **Fabric Structure Evaluation:** Structural Balance, Weight Distribution, Warp Behavior
- **Textile Methodologies:** Saree Construction, Modular Design, Traditional Techniques
- **Quality Control Practices:** Design Reviews, Sample Evaluations, Industry Compliance
- **Team Collaboration Tools:** Communication Apps, Project Management Software, Design Feedback Channels
- **Educational Workshops:** Skill Development, Training Materials, Presentation Skills

SKILLS

- |                        |                      |                        |                        |
|------------------------|----------------------|------------------------|------------------------|
| • Textile Design       | • Problem Solving    | • Loom Technologies    | • Sampling Techniques  |
| • Weaving Construction | • Project Management | • Fabric Analysis      | • Quality Assurance    |
| • CAD Software         | • Saree Design       | • Fabric Performance   | • Modular Architecture |
| • Jacquard Programming | • Textile Production | • Yarn Tension Control |                        |

PROFESSIONAL AFFILIATIONS

- Member, Textile Engineering Society
- Volunteer, Local Community Textile Workshops

LANGUAGES

- English (Native)
- Hindi (Proficient)

ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST