ELEANOR AGUIRRE

TEXTILE ENGINEER

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STRENGTHS

Analytical Thinking
Consistently breakdown complex problems, guiding decisions that led to practical woven solutions.

Collaboration Skills
Foster collaborative environments where designers and weavers unite for successful project completions.

Creative Design
Created unique saree patterns, illustrating a blend of tradition with innovative imagery.

Technical Proficiency
Utilized advanced CAD software for weaving logistics, strengthening communication among teams.

Problem Solving
Regularly addressed production challenges, resulting in streamlined workflows and maintained output quality.

SKILLS

Textile Design
Weaving Construction
CAD Software
Jacquard Programming
Problem Solving
Project Management
Saree Design
Textile Production
Loom Technologies
Fabric Analysis
Fabric Performance
Yarn Tension Control
Sampling Techniques

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

Weaving Innovations Inc. June 2022 - Present 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

Textile Solutions Ltd. March 2019 - May 2022 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

Textile Research Group January 2017 - February 2019 San Antonio, TX

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

Quality Assurance

Modular Architecture

LANGUAGES

English — Native

Hindi — Proficient

MY CAREER

- Textile Engineer at Weaving Innovations Inc. (4.2 Years)
- Junior Textile Engineer at Textile Solutions Ltd. (3.2 Years)
- Research Assistant at Textile Research Group (2.1 Years)

- 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

University of Texas at Austin GPA: 3.85 2016 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

PROFESSIONAL AFFILIATIONS

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST