

SAMMAR FATIMA

Textile Engineer

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SKILLS

SOFT

- Research, Project Management, Time Management, Leadership, Adaptability

TECHNICAL

- Textile Processing, Sustainable Dyeing, Quality Control, Process Optimization, Data Analysis

WORK EXPERIENCE

Junior Merchandiser, Artistic Milliners, Karachi, Pakistan, Oct 2024 - Jan 2025

- Assisted in merchandising activities, coordinating between production and clients.
- Gained exposure to order handling, sampling, and supply chain processes

Textile Executive (Processing Department), Artistic Milliners, Karachi, Pakistan, Oct 2023 - Oct 2024

- Oversaw textile processing operations and quality control systems.
- Led projects focused on machine improvement and process efficiency.

EDUCATION

- **M.Sc. Computer Science**, University of North America (2024 - Present)
- **B.E. Textile Engineering**, University of Saskatchewan (2019 - Present)

INTERNSHIPS

Alkaram Textile Mills, Jul 2022 - Sept 2022

- Assisted in fabric sampling and order tracking within the processing department.
- Gained exposure to production workflows and client requirements.

Sapphire Textile Mills, Jun 2021 - Aug 2021

- Supported the processing department with quality inspections.
- Learned about sustainable dyeing techniques and fabric testing.

Yunus Textile Mills, Jun 2020 - Aug 2020

- Worked with the processing team on fabric finishing operations.
- Observed quality control systems and machine performance monitoring.

PROJECTS

Prototype of Mixing Bale Opener with Defect Detection Sensors

- Designed and developed a Mixing Bale Opener machine prototype for efficient fiber preparation.
- Installed sensors to detect fabric defects during processing, enhancing quality control.
- Optimized workflow to increase productivity and reduce fiber waste.

REnnic – Converting Plastic Waste into Wearable Textiles

- Developed a process to transform plastic waste into reusable fibers for textile production.
- Executed fiber spinning and manufacturing of T-shirts from recycled materials.
- Emphasized sustainability and eco-friendly textile solutions.

Sustainable Natural Dyeing Techniques

- Applied eco-friendly natural dyes in textile production, focusing on color fastness and vibrancy.
- Streamlined processing steps to reduce chemical waste and energy consumption.
- Used data analytics to optimize dyeing performance and fabric quality.

Fashion-Tech Integration Project

- Applied technology and automation to traditional textile practices.
- Explored smart textile production and innovative textile processing techniques.
- Focused on combining efficiency, quality, and sustainability in textile manufacturing.

PARTICIPATION & EVENTS

- Organizer, Textile Carnival – MUET Jamshoro (22 Mar 2023)
- Secretary General, MUETMUN'23 – MUET Jamshoro (10–12 Mar 2023)
- Organizer, 1st International Sindh Tech Conference – Arts Council of Pakistan, Karachi (12 Aug 2022)
- Lead of Documentation, Mehran University Debating & Dramatic Society – MUET Jamshoro (1 Jun 2022)
- Participant, Pakistan SDG Summit – Organized by MUSEE, ALChE MUET & YPLO (15 Mar 2022)
- Director of Public Relations, MUETMUN'22 – MUET Jamshoro (Feb 2022)
- Organizer, Textile NEXUS International Conference – Department of Textile Engineering, MUET (9–10 Jun 2021)
- Participant, MUET Sports Week – MUET (2020)

WORKSHOPS & TRAINING COURSES

- Fashion, Textile & Graphic Designing – AF Clothing, MUET Jamshoro
- UI/UX Design – Figma & user experience
- Project Management – Planning & teamwork
- SQL Development – Database creation & queries
- Digital Marketing & SEO – NAVTTC, MUET

MEMBERSHIP & LEADERSHIP ROLES

- Secretary General, Textile Society of MUET – Led initiatives under the slogan “Connecting Textilians.”
- Executive Member, Student Energy Chapter, MUET – Served as Team Lead, Event Planning (Jan 2021 – Sept 2022).
- Volunteer Team Member, Kamyab Jawan Program, MUET – Contributed to student development and community activities.

REFERENCES

References are available upon request