

# Ariful Islam Fahim



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## Professional Summary

Textile Engineering student (**CGPA 3.91**) with strong foundations in textile testing, smart materials, and wet processing. Demonstrated excellence through **five major academic awards** and hands-on innovation in **pH-responsive textile development**. Skilled in scientific experimentation, analysis, and documentation, with leadership experience as **Class Representative**.

## Education

**Bachelor of Science (BS) in Textile Sciences & Engineering,**

10/2022 – 06/2026 (Expected)

Green University of Bangladesh

Dhaka, Bangladesh

- **CGPA:** 3.91/4.00

## Awards

**Vice Chancellor's Award – Academic Excellence (4 times),**

2025

Green University of Bangladesh

**Dean's Award – Academic Excellence (1 time),**

2025

Green University of Bangladesh

## Skills

**Textile Testing & Quality Control** – Fiber identification, GSM, tensile/elongation tests, fabric evaluation, lab performance analysis

**Wet Processing** – Dyeing fundamentals, chemical preparation, mordanting, eco-friendly lab processes, pH-based material response

**Research & Documentation** – Experiment design, literature review, data interpretation, technical reporting

**Tools & Software** – Microsoft Excel (advanced formulas, data analysis), PowerPoint, Word

## Projects

**Development of a pH-Sensitive Smart Textile (Lead Researcher)**

2025

- Engineered cotton-based smart fabric using anthocyanin extraction with reversible color response across acidic–neutral–alkaline ranges.
- Increased wash-fastness by **~45%** through optimizing mordant type, concentration, and temperature.
- Evaluated applications in **wound indicators, food spoilage detection, and smart apparel**.
- Authored full experimental documentation with controlled variable analysis and repeatability validation.

## Experience

**Class Representative, Green University of Bangladesh**

2022 – Present | Dhaka, Bangladesh

- Coordinated academic communication for 40+ students, ensuring timely and accurate updates from faculty.
- Assisted in organizing academic events, schedules, and industrial visit preparation.

**Industrial Visit (Textile Engineering),**

2025 | Shardagonj, Kashimpur, Gazipur

GMS Composite Knitting Ind. Ltd.

- Observed full production flow across **knitting → dyeing → finishing** in a composite knit facility.
- Studied key knitting machines (**single jersey, double jersey, interlock, Jacquard**) and related **QC checkpoints**.

## Languages

**Bengali** – Native / Bilingual • **English** – Professional working proficiency