Fabiha Islam

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Education

Michigan State University | BSc in Packaging *Expected completion:* 12/2026

Experience

Production Process Manager | *Quality Packaging, Inc.* *St. Francis, WI* | 06/2026 - Present

- Manage packaging orders from customer requirements through production and shipment for accounts including Kohler and Mercury Marine.
- Coordinate production schedules, material availability, and order priorities across purchasing, production, quality, and shipping teams to support on-time delivery.
- Maintain customer orders and production trackers in Maverik, communicate status updates, and resolve order discrepancies and delivery issues.
- Support bill of materials (BOM) and quality changes, PPAP documentation, and cross-functional communication to maintain accurate production requirements.

Packaging Engineering Intern | *Sirajul Foam Industries Ltd.* *Chittagong, Bangladesh* | 04/2024 - 08/2024

- Evaluated and qualified protective packaging systems by applying ASTM and ISTA distribution testing protocols to ensure durability during handling, transportation, and storage.
- Developed packaging specifications, qualification test plans, and engineering documentation by analyzing test results and performance data to support packaging validation and traceability.
- Optimized packaging material selection by conducting comparative testing of polymer materials (PVC, PE, EVA) and collaborating with suppliers, achieving 25% reduction in material costs while maintaining protective performance.

Quality Assurance Intern | *Clifton Dyeing Ltd.* *Chittagong, Bangladesh* | 04/2023 - 08/2023

- Improved material and packaging quality processes by applying statistical sampling plans and SPC tools, increasing development cycle efficiency by 25%.
- Performed risk analysis and defect prevention activities by conducting FMEA and root cause analysis on 50+ weekly production lots achieving a 98% preproduction defect elimination rate.
- Contributed to process qualification and continuous improvement initiatives by applying Lean Manufacturing principles and workflow optimization techniques reducing production cycle time by 20%.
- Strengthened supplier and incoming material quality standards by collaborating cross functionally to align inspection criteria, specifications, and corrective actions improving consistency and repeatability.

Glass Bottle Design Project | *MSU Packaging Program* *East Lansing, MI* | 08/2024 - 12/2024

- Designed a primary glass container and secondary protective packaging system using CAD and structural design principles to optimize material efficiency and mechanical performance.
- Validated packaging performance through distribution style testing and sustainability analysis balancing protection, recyclability, and cost.
- Ranked Top 4 in class for packaging design innovation and technical justification.

Technical Skills

Packaging: Package Design & Development • Packaging Qualification • Specifications & Documentation • Component Interaction & Assembly; **Testing:** ASTM Distribution Testing • ISTA Protocols • Cushioning & Vibration Analysis • Performance Validation; **Materials:** Glass • Rigid Plastics (PVC, PE, EVA) • Protective Packaging • Secondary Packaging; **Engineering Tools:** FMEA • Root Cause Analysis • 5 Whys • Lean Manufacturing • Continuous Improvement • SPC; **Software:** SolidWorks • ArtiosCAD • ESKO WebCenter • Excel (Advanced) • Power BI • Tableau • MATLAB • Python • Minitab • Adobe Illustrator