

TONMOY PAUL

Data-Driven Operations & Systems Optimizer Industrial Engineering · BI/MIS · Digital Transformation

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PROFESSIONAL SUMMARY

Data-Driven Operations & Systems Optimizer bridging factory-floor process engineering and digital intelligence systems. 3+ years architecting IoT-fed KPI engines, ERP-linked cost dashboards, and automated reporting pipelines across 172 production lines and a \$60M+ cost base — cutting manual reporting 88% and lifting throughput efficiency 15%, as one of 2 analysts on a 5-person Continuous Improvement team at Snowtex Group. Promoted to Assistant Manager — Continuous Improvement in July 2026.

PROFESSIONAL EXPERIENCE

Assistant Manager — Continuous Improvement

Jul 2026 – Present

Snowtex Group (Continuous Improvement & Digitalization) · One of 2 analysts in a 5-person CI team · Reporting to Sr. AGM · 3 direct reports (Jr. Executives) & 3 Reporters · Dhamrai, Dhaka

- **Team & Pipeline Leadership:** Directing data-pipeline priorities and output quality for a 5-person CI analytics team across 8 live KPI systems.
- **Decathlon OPEX Sustainment:** Sustaining Decathlon OPEX Level-B performance by continuing as Industrialization Leader across Decathlon's OPEX/OWE standards and Snowtex senior management reporting lines.
- **Data Governance & QA:** Auditing data accuracy and usage across 8 post-go-live KPI/BI systems to catch drift before it reaches management dashboards.

Production Engineer — Continuous Improvement

Jan 2024 – Jul 2026

Snowtex Group (Continuous Improvement & Digitalization) · One of 2 analysts in a 5-person CI team · Reported to Sr. AGM · 3 direct reports · Dhamrai, Dhaka

- **Throughput Efficiency:** Increased production line throughput efficiency by 15% within 6 months across 172 lines, by architecting an IoT-fed KPI dashboard and automated incentive-calculation pipeline (Google Sheets, Apps Script, Data Studio).
- **Predictive OWE Modelling:** Improved OWE from 60% to 70% (+10pp) and cut weekly analysis effort by 88% (96 to 12 person-hours) across 62 lines at 90.1% forecast accuracy, by building a predictive early-alert model and automated reporting pipeline.
- **Cost-Performance Dashboarding:** Eliminated an 18-25 day cost-visibility lag (to same-day) on a \$60M+ cost base, automating 81 cost heads across 3 reporting tiers, by architecting a daily cost-performance dashboard integrated with ERP-sourced production data.
- **KPI Framework & Data Governance:** Standardized performance measurement for 2,000+ staff across 24 departments and 77 sections onto one 100-point KPI framework, resolving a Cost/Production/Quality data conflict, by designing a unified KPI data model with Director-level sign-off.
- **Warehouse Digitalization:** Raised inventory data accuracy from 75% to 99% across 4 warehouses (~400 users), cut GRN processing time 83% (30min to 5min), eliminated 6,000 paper bin cards/year, and freed 11 staff for redeployment, by implementing a QR-code digital inventory system integrated with warehouse workflows.
- **Smart-Factory Industrialization (Decathlon OPEX):** Achieved Bangladesh's first Decathlon OPEX Level-B certification (73%), externally verified, by leading full-roadmap smart-factory industrialization initiatives and presenting KPI roadmaps at Director level.

Management Trainee — Industrial & Process Engineering

Jul 2023 – Jan 2024

Snowtex Group · Cutting Section transformation project · Dhamrai, Dhaka

- Analysed woven production workflows and manpower allocation; laid the analytical foundation for the IoT production incentive system.
- Diagnosed cutting section OEE stagnation at 42%; designed a 21-machine OEE framework with fabric-type and marker-complexity normalization derived from controlled experiments.
- Overcame pushback from cutting section leaders using benchmarking data; OEE rose from 42% to 66% over 12 months, machine utilization doubled (40% to 80%), and 22 positions were reallocated without any drop in output.

EDUCATION, CERTIFICATIONS & RECOGNITION

B.Sc. Industrial & Production Engineering

2018 – 2022

NITER — National Institute of Textile Engineering & Research

Certifications:

- Excel Skills for Business Specialization · Coursera / Macquarie University, 2023
- Industrial Engineering & Lean Manufacturing · SEIP, 2023

Recognition & Accomplishments:

- Certificate of Appreciation — OWE & QCO Management • Issued by Decathlon, awarded by name • 2024
- First Decathlon OPEX Level-B Supplier in Bangladesh (73%) • Snowtex Group • 2024–2025

TECHNICAL SKILLS

BA / CI Frameworks: Requirements Elicitation | BRD / RTM Documentation | User Stories | UAT | Gap Analysis | BPMN | Process Mapping (VSM / SIPOC) | Root Cause Analysis | Stakeholder & Change Management

Data & BI Tools: Looker Studio | Advanced Excel / Sheets | Google Apps Script | Statistical Process Control | Predictive Modelling | IQR Anomaly Detection | ERP Data Integration

Domain & Operations: OEE / OWE Frameworks | IoT Architecture | QR Inventory Design | Supply Chain & Inventory Analytics | Cost-Performance Modelling | Financial Modelling