

# Md. Shahidul Islam

Industrial Engineer | Data Analyst

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## PROFESSIONAL PROFILE

A result-driven Industrial Engineer with hands-on experience in data analytics, process optimization, and operations planning. Specialized in leveraging Power BI, Python, Google Sheets and Excel to analyze trends, visualize metrics, and drive business intelligence. Strong academic research background in modeling and optimization using statistical and machine learning methods.

## CORE COMPETENCIES

- Google Sheets (Google App Script, Query, Macros, Add ons, Extensions)
- Power BI (Dashboard, Extract, Transform & Load)
- Process Optimization & Simulation
- Forecasting & KPI Reporting
- Python (Gurobipy, numpy, matplotlib, scikit-learn)
- Advanced Excel (Pivot Tables, Solver, Forecasting)
- Statistical Analysis and Machine Learning
- ERP System (Data Entry & Planning Integration)

## PROFESSIONAL EXPERIENCE

**Executive - Planning, Development & Quality Management System** 01/2024 – Present | Dhaka, Bangladesh

*Brother's Furniture Ltd*

- Developed production plans integrating production capacity, CPM, SMV, and demand forecasts.
- Analyzed raw material purchases via MRP segmentation, reducing procurement delays.
- Implemented Power BI dashboards to visualize inventory trends and delivery performance.
- Used Google App Script to automate daily reporting activities.
- Achieved 18% productivity increase through lean tools (5S, Kanban & VSM).
- Developed SOP for repairing section and created a database with a dashboard for customer service.
- Used Pareto analysis to reduce defect rates by 7% and built AQL-based quality charts.

## EDUCATION

**B.Sc. in Industrial & Production Engineering** 2019 – 2024

*Shahjalal University of Science & Technology, Sylhet*

CGPA: 3.53/.00

**HSC** 2018

*MC College, Sylhet*

GPA - 5.00

**SSC** 2016

*The Buds Residential School and College, Sreemangal*

GPA - 5.00

RESEARCH & THESIS

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**Research: Safety & Labor Productivity - ICMIME Conference** 2024  
**2024**

- Used Python regression model; 0.9 correlation between safety and productivity.
- Predicted 3.89% productivity boost for every 10% safety improvement.

**Thesis: Linear Programming-based Diet Optimization Using Python** 2023

- Developed a cost-minimizing LP model using Python (Gurobipy) & Excel.
- Surveyed student dietary habits; modeled and visualized optimization results.

CERTIFICATIONS

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- SAP PP Module - Udemy
- Extract, Transform, Load in Power BI - Coursera
- SQL for Data Analytics - Udemy
- Supply Chain Planning & Logistics - Coursera

PROJECTS

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**Smart Blind Stick** 2022  
*Mobility assistance using sensors*

**Digital Tachometer** 2022  
*RPM measurement via IR sensor*

AWARDS

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**80% Scholarship, ACSCP Supply Chain Research Challenge** 2022  
**2.0**  
*BIHRM*