

# Mahmoud SidiMohamed

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## Work Experience

### Industrial Engineering intern

Jun 2024 – Aug 2024

Al-Bairag Cardboard Products Co. • Medina, Saudi Arabia

- Visualized the production workflow using MS Visio.
- Drawn a detailed illustration of current factory layout using AutoCAD.
- Managed raw material receiving logs using MS Excel.
- Assisted the factory's production manager in distributing manufacturing schedules to the workforce.
- Monitored daily factory operations and observed the factory compliance with safety procedures.
- Recommended improvements to workflow based on Arena Simulation data.

## Education

### B.S Industrial Engineering

Aug 2020 – May 2025

Taibah University • Medina, Saudi Arabia

**GPA: 4.08/5.00 | Graduation: 2025**

Completed a comprehensive program covering:

Operations Research, Simulation, and Decision Support | Production, Inventory, and Facility Planning  
Quality and Safety Engineering | Project and Engineering Management | Supply Chain and Logistics|  
Engineering Statistics and Economics

## Projects

### Developing a Digital Twin system for the supply chain to enhance routing performance

- Built an affordable digital twin dashboard using R language to simulate inventory and logistics operations
- Applied genetic algorithms for route optimization using geospatial data
- Improved supply chain efficiency through real-time mapping and simulation

### Improving Ergonomics at Al Esra Aluminum Factory

- Analyzed the workplace to find ergonomic issues
- Designed and implemented an ergonomic waste transportation system using a custom cart tailored to workers' height, enabling material reuse and enhancing workplace productivity.

## Skills

### Soft Skills

- Problem Solving ● Critical Thinking ● Decision Making ● Attention to Details ● Fast Learning
- Team Collaboration ● Adaptability ● Cross-Cultural Communication ● Supervision

### Solid Skills

- AutoCAD ● CAD/CAM ● Microsoft Office Suite ● MATLAB ● MS Project
- Production Scheduling ● Optimization Modeling ● Work Measurement ● Linear Programming
- Ergonomic Design ● Workplace Safety ● Project Scheduling ● MS Visio

## Courses

OSHA NSC	NSC Learning	Jan 2025
Foundations of Project Management	Google	Oct 2025

## Languages

Arabic Native English Fluent