

## Academics

**Bangladesh University of Engineering and Technology (BUET), Bangladesh**   
Master of Science in Industrial and Production Engineering

2022- 2025  
CGPA: 3.92/4.00

Major Coursework:

Data Science  
Machine Learning-I  
Operations Scheduling and Sequencing,  
Logistics Management  
Composite Materials  
Growth and Management of Technology

**Khulna University of Engineering & Technology, Bangladesh**   
Bachelor of Science in Industrial and Production Engineering

2017 – 2022  
CGPA: 3.60/4.00

Major Coursework

Operations Research  
Operations Management  
Probability and Statistical Analysis  
Production System Design  
Supply Chain Management  
Quality Management  
Reliability Engineering  
Management Information System  
Material Handling and Maintenance Management  
Modern and Solid State Physics  
Differential Calculus  
Probability and Statistical Analysis

Computer-Integrated Manufacturing  
Robotics  
Computer-Aided Manufacturing  
Manufacturing Process-I  
Manufacturing Process-II  
Machine Tools  
Tool Engineering  
Engineering Materials  
Engineering Metallurgy  
Product Design  
Machine Design  
Mechanics of Solid  
Engineering Mechanics  
Machines Theory

Human Factors Engineering  
Safety Management

## Project Management

Government Michel Madhusudhan College, Jessore  
2014-2016  
High School  
GPA: 5.00/5.00

## Experiences

### **SAP Associate, PricewaterhouseCoopers (PwC), Bangladesh April 2025 - Present**

### **SAP Analyst, PricewaterhouseCoopers (PwC), Bangladesh Aug 2023 - April 2025**

- Gathered and analyzed business requirements, conducted AS-IS analysis, and mapped processes for diverse manufacturing scenarios.
- Configured and optimized SAP PP & QM module, including master data (Material Master, BOM, Routing, Work Center), MRP, production orders, capacity planning, and shop floor control.
- Developed and managed WRICEF objects, preparing detailed Functional Specifications (FS) and collaborating with ABAP developers for custom solutions.
- Designed, tested, and delivered custom ABAP objects to address unique client requirements, ensuring seamless integration with PP and related modules (MM, SD, QM). Authored and maintained crucial project documentation, including Business Blueprint (BBP), Functional Requirement Specification (FRS), user manuals, test scripts, and training materials.
- Facilitated user training sessions and workshops to drive successful system adoption and change management.
- Provided comprehensive post-go-live support, troubleshooting, and continuous process enhancements for improved operational efficiency.
- Participated in all phases of testing—unit, integration, and user acceptance—ensuring solution quality and reliability.

## TEACHING EXPERIENCE

### **Graduate Teaching Assistant, IPE, BUET**

2022

Mentored, supervised students, Proctored, graded papers, and helped the instructor with lecture preparation.

- TA for the course “IPE 301: Measurement, Instrumentation and Control”
- TA for the course “IPE 306: Production Process Sessional”
- TA for the course “IPE 402: Machine Tools Sessional”
- TA for the course “IPE 408: Ergonomics and Safety Management Sessional”
- TA for the course “CSE 296: Computer Programming Techniques Sessional”

### **Guest Lecturer, IPE, National Institute of Textile Engineering & Research (NITER), Dhaka, Bangladesh**

2023

Conducted both theoretical and lab classes in Outcome-based Education (OBE) format.

Courses Conducted: Modern Manufacturing Technology, CAD/ CAM, Advanced Manufacturing Process.

### **Mentor & Instructor, Science Zone Academic Care, Jashore, Bangladesh**

2017-2024

- Extensively tutored students for over 7 years at various academic levels, including O-level, A-level,

- National Curriculum high school, and first-year university students.
- Delivered instruction in High School Level Mathematics, Physics, and Programming, covering topics such as Calculus, Trigonometry, Probability and Statistics, Newtonian Mechanics, Electricity and Magnetism, and more

## HONORS AND AWARDS

**National Science and Technology (NST) Fellowship 2023** Issued by the Ministry of Science and Technology, Government of the people's republic of Bangladesh.

**Dean's Listed**-For achieving CGPA over 3.75 (3.82) in the academic session 2020-21.

**University Merit Scholarship** in four consecutive years of undergrad study.

**PMO** for SAP Implementation projects of four companies.

**Winner (1<sup>st</sup> Runner-Up)** || 2021 ISCEA PTAK PRIZE Case Competition ISCEA Bangladesh.

**Winner (1<sup>st</sup> Runner-Up)** || BIHRM Innovetia 2021 Supply Chain Case Competition.

## CERTIFICATIONS

- Industry 4.0: How to Revolutionize your Business**, edX [\[Certificate\]](#) Sep 2020
  - Computer Vision for Data Scientists**, LinkedIn Learning [\[Certificate\]](#) Aug 2024
  - Python Fundamentals**, DataCamp [\[Certificate\]](#) Aug 2022
  - Bayesian Methods for Machine Learning**, Coursera May 2023
  - Data Science and Supply Chain Analytics. A to Z with Python**, Udemy Sep 2023
  - Quantum Computing Fundamentals**, LinkedIn Learning [\[Certificate\]](#) Nov 2025
  - QC101 Quantum Computing & Intro to Quantum Machine Learning**, Udemy [\[Certificate\]](#) Oct 2025
- Advanced Graph Neural Networks**, LinkedIn Learning [\[Certificate\]](#) Nov 2025

<b>Programming Language</b>	Julia, C, Python, R, SQL, DAX, MATLAB, C#, C++
<b>Operations Research</b>	Stochastic Programming, LP, QP, MIP, MILP, MINLP, Travelling Salesman Problem, Graph Theory, Scheduling, Game theory, Queuing Theory
<b>ML Techniques</b>	Regression, Clustering, SVM, Random Forest, Bayesian Network, Ensemble learning, Uncertainty Quantification, MLOps, Distributed systems, Gen AI, XAI
<b>Computer Vision</b>	OpenCV, PyTorch, Detectron2, Mask R-CNN, Vision Transformers (ViT), CLIP, Pose Estimation, Transfer Learning, Dataset Annotation (LabelImg, CVAT)
<b>Graph Machine Learning</b>	GNN, GCN, GAT, GraphSAGE, Node2Vec, DeepWalk, Knowledge Graph Embeddings (TransE, RotatE), PyG, Deep Graph Library, NetworkX, StellarGraph
<b>Quantum Machine Learning</b>	QNN, VQC, QSVM, Quantum Boltzmann Machines, Qiskit ML, PennyLane, TensorFlow Quantum, Cirq, Braket SDK, Rigetti Forest, QAOA, VQE
<b>Reinforcement Learning</b>	MDP, DQN, Double DQN, Policy Gradient Methods, Deep Deterministic Policy Gradient (DDPG), Q-Learning, MARL, RLlib, TensorForce, Unity ML-Agents
<b>Python Library</b>	NumPy, Pandas, Matplotlib, DataPrep, Seaborn
<b>Data Visualization</b>	MS Power BI, Tableau
<b>ML and DL Tools</b>	PyTorch, TensorFlow, Keras, Scikit-learn, PyCaret, H2O
<b>NLP Library</b>	NLTK, SpaCy, Textblob, Gensim, Hugging Face, fastText

<b>Optimization</b>	Gurobi, CPLEX, SciPy, Pymo, GLPK, GAMS, LINDO, OLP, AMPL
<b>Manufacturing</b>	Industry 4.0, CNC, DNC, 3D Printing, metallurgy, and ultrasonic technologies
<b>Simulation Software</b>	ANSYS, SUMO, AnyLogic, COMSOL
<b>Augmented Reality (AR)</b>	Unity Hub, ARCore

<b>S/4HANA PP</b>	MRP, DDMRP, aATP, MPS, SOP, REM, LTP, PIRs, advanced production scheduling, embedded production execution
<b>S/4HANA QM</b>	QIR, QN, DMR, MICs, CoA, SPC, QIM, LIMS Integration, Digital Signatures
<b>Data Migration</b>	SAP Activate, LSMW, LTMC, BODS, DMO, SUM, SLT, ETL
<b>Technical Tools</b>	HANA Studio, ABAP(BAPI, BADI, RFC), User Exits, BTP, CPI
<b>Process Optimization</b>	Lean, Six Sigma (DMAIC), VSM, JIT, TQM, Kaizen, Embedded PP/DS
<b>Quality Tools</b>	FMEA, RCA, 8D, QFD, Pareto Analysis, Control Charts, DoE
<b>SAP Fiori</b>	PP/QM Apps (MPO, MMC, QI, DR), UX, OData Services
<b>Coding Language</b>	C, Python, R, SQL, DAX, MATLAB
<b>Software</b>	MS Suite, Microsoft Office, Power Automate, Microsoft Project
<b>Data Visualization</b>	Microsoft Power BI, Tableau
<b>Python Library</b>	NumPy, Pandas, Matplotlib, Pymo, DataPrep, Seaborn
<b>Machine Learning</b>	PyTorch, Tensorflow, Keras, Scikit-learn
<b>Graphics</b>	Adobe Photoshop, Illustrator, Premiere Pro