

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 (1st Runner-Up) || 2021 ISCEA PTAK PRIZE Case Competition ISCEA Bangladesh. [🌐](#)

Winner (1st 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

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

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

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