

SM KAMRUZZAMAN

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Research Interest

Data Science & Machine Learning, Operations Research, Optimization, Internet of Things, Wireless Sensor Network, Industry 4.0.

Education & Test Scores

2014-2018 Rajshahi University of Engineering & Technology *Rajshahi-6204, Bangladesh*
BSc in Industrial & Production Engineering [CGPA: 3.13]

GRE: Q: 161 V: 149 AWA: 3.5 [Total: 310] Year: 2021

TOEFL: R: 17 L: 28 S: 22 W: 26 [Total: 93] Year: 2023

Technical Skills

Language and Scripts: C, Python, MATLAB Programming, HTML, CSS, MySQL

Design and Simulation: Autodesk Inventor, Solidworks, AutoCAD

Operating System: Windows, Linux (Kali, Ubuntu)

Statistics: IBM SPSS, Minitab

Field of Interest and Experience

Internet of Things: Developing wireless sensor network (Undergrad. Research)

Optimization: Solving optimization problems applying different Novel algorithms.

Environment: MATLAB, PYTHON

Network optimization, Vehicle Routing Problem, Travelling Salesman Problem

Data Science and ML: Data collection, Data preprocessing, Data analysis, Developing models.

Training and Testing ML Models.

Undergraduate Research and Project Works

Thesis Title: Integrated IoT Framework with WSN for Monitoring Industrial Environment and Controlling Appliances in the Context of Industry 4.0.

Objectives:

1. To design a Wireless Sensor Network system and implement it in the industrial environment (prototype scale).
2. To develop a website for using it as an interface for monitoring and controlling functions.
3. Develop a local server for hosting the website – using Raspberry-Pi

Case Study Title: Effects of Language Barrier in International Trade.

Objectives:

1. To find out whether language is a barrier in international trade or not.
2. To recommend remedies to overcome the barrier.

Project Design and Development of a Mini CNC Plotter using Arduino.

1. To develop a low-cost device that can plot an image on a paper with pen.
 - a. 3-Axis numeric control system

- b. G-code to control the toolpath
- c. Using open-source software (Inkscape) for converting image to G-code
- d. Using open-source program (JAVA) as a user-interface

Professional Experience and Internships

2019 August-Present	United Surgical Limited, Bangladesh Engineer, New Product Development	<i>Gazipur, Bangladesh</i>
	<ul style="list-style-type: none"> • Process Improvement by optimizing process parameters. • Process planning, material planning, manpower planning, • Sourcing raw materials and machinery. • Waste reduction by monitoring process. • Quality Management System. • Inventory monitoring. • Facility Layout & Optimization • New Project Planning and Execution. • Bill of Materials making and auditing 	
2016 (July)	Industrial Attachment Training: Confidence Infrastructure Limited	<i>Dhaka, Bangladesh</i>

Activities

2014-2018	Volunteer NIROB – Nirapod Rokter Bandhan (A voluntary blood donation organization)	<i>Rajshahi, Bangladesh</i>
2017-2018	Class Representative Dept. of Industrial & Production Engineering, Rajshahi University of Engineering & Technology	<i>Rajshahi, Bangladesh</i>
2018	Organizer & First Aider Final year tour of Department of IPE, RUET	
2017	Volunteer FAB-LAB establishment in RUET (CNC Router M/C setup)	<i>Rajshahi, Bangladesh</i>
2017	Volunteer (Technical Support) 3 rd International Conference of Mechanical, Industrial and Materials Engineering (ICMIME). Venue: Rajshahi University of Engineering & Technology	<i>Rajshahi, Bangladesh</i>
2017	Second Runners Up Intra RUET CAD Competition	<i>Rajshahi, Bangladesh</i>

Kaggle: <https://www.kaggle.com/kamruzzamanselim>

GitHub: <https://github.com/KamruzzamanSelim/>

Website: <https://kamruzzamanselim.github.io/portfolio/index.html>