SM KAMRUZZAMAN

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Research Interest

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

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	*Gazipur, Bangladesh*

- 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.
- New Project Planning and Execution.

2016 (July)	Industrial Attachment Training: Confidence Infrastructure Limited	*Dhaka, Bangladesh*

Activities

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

Kaggle: https://www.kaggle.com/kamruzzamanselim
GitHub: dark5plder (Kamruzzaman Selim) (github.com)
Website: https://sites.google.com/view/kamruzzaman-selim/home