DHIMAN ROY

dhimanroy117@gmail.com

(+880) 1521440306

♥ H: 35/1, R: 1/3, Satgara (Charakbari), Rangpur Sadar, Rangpur-5401, Bangladesh

EDUCATION

■ B.Sc. in Mechanical Engineering **Bangladesh University of Engineering and Technology**

♀ Dhaka-1000, Bangladesh

CGPA: 3.57 on the scale of 4

■ Higher Secondary Education in Science **Cantonment Public School And College**

Rangpur-5401, Bangladesh
April, 2014

GPA: 5 on the scale of 5

■ Secondary Education in Science Rangpur Zila School

Rangpur-5400, Bangladesh
February, 2012

GPA: 5 on the scale of 5

RESEARCH INTEREST

- Microfluidics
- Nanofluidics
- CFD
- Rarefied Gas Dynamics

PAPER ACCEPTED

A Computational Analysis of Fluid Mixing Characteristics Inside a Microchannel by **Pulsating Streams**

16th Asian Congress of Fluid Mechanics

♀ JNCASR Bengaluru

December, 2019

This work is done to analyze the use of pulsating streams for possible enhancement of fluid mixing in a microchannel at low Reynold numbers. https://doi.org/10.1007/978-981-15-5183-3_20

PROJECTS

■ Wheelchair with smart control

- Changed over an ordinary wheelchair to a mechanized one with least expense
- For low income individuals with special needs
- GPS navigation and emergency alert system was included

■ Android project on emergency situation

- A very basic android application for one-click notification
- Developed this whole project using an open source web application

EXPERIENCE

■ Research Experience

Macro-to-Micro scale Fluids Engineering Lab (M μ FEL)

P Dept. of ME, BUET

Movember, 2020 - Present

- Working as a research assistant
- Teaching Experience

Lecturer at Department of Mechanical Engineering in Sonargaon University (SU)

■ Industrial Experience

In Plant Trainee

♀ The ACME Laboratories Ltd.

Ctober, 2018

- Performed inspection of different subsystems and equipment
- Reported daily to the Chief of the Engineering Department

STRENGTH

- Scientific Computational Tool: Matlab
- Programming Language: C, Python, Scheme
- FEM Modeling Tool: ANSYS
- Design Tool: AutoCAD, Solidworks
- Plotting and Graphics Tool: Tecplot, Inkscape
- OS: Windows, Linux (Ubuntu)

EXTRACURRICULAR ACTIVITIES

■ Intra-Cantt. Math Olympiad

- 1st runner up team, 2013
- Bangladesh Mathematical Olympiad
- Academic Team Member, 2016 Present
- 1st runner up. Divisional round. 2012
- 2nd runner up, Divisional round, 2011
- Bangladesh Astronomical Olympiad
- 2nd, Divisional round, 2011

REFEREES

Dr. A.B.M. Toufique Hasan Professor

Dept. of ME, BUET

- **♀** Dhaka-1000, Bangladesh
- **(+880)** 1730714444

Dr. Md. Abdus Salam Akanda

Professor

Dept. of ME, BUET

- **♀** Dhaka-1000, Bangladesh
- **(+880)** 1934123047
- toufiquehasan@me.buet.ac.bd masalamakanda@me.buet.ac.bd