

DHIMAN ROY

✉ dhimanroy117@gmail.com

📍 Mohakhali, Dhaka-1212, Bangladesh

EDUCATION

- **M.Sc. in Mechanical Engineering**
Bangladesh University of Engineering and Technology
📍 Dhaka-1000, Bangladesh 📅 Ongoing
- **B.Sc. in Mechanical Engineering**
Bangladesh University of Engineering and Technology
📍 Dhaka-1000, Bangladesh 📅 April, 2019
- **Higher Secondary Education in Science**
Cantonment Public School And College
📍 Rangpur-5401, Bangladesh 📅 April, 2014
- **Secondary Education in Science**
Rangpur Zila School
📍 Rangpur-5400, Bangladesh 📅 February, 2012

RESEARCH INTEREST

- Microfluidics
- Micropropulsion
- Turbulence
- Discrete Phase

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_μFEL)
📍 Dept. of ME, BUET 📅 November, 2020 - Present
 - Working as a Research Assistant
- **Teaching Experience**
Dept. of ME, Sonargaon University (SU)
📍 147/I, Green Road, Dhaka-1215 📅 June, 2019 - Present
 - Working as a Lecturer
- **Industrial Experience**
In Plant Trainee
📍 The ACME Laboratories Ltd. 📅 October, 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

✉ toufiquehasan@me.buet.ac.bd

Dr. Md. Abdus Salam Akanda
Professor

Dept. of ME, BUET
📍 Dhaka-1000, Bangladesh
☎ (+880) 1934123047

✉ masalamakanda@me.buet.ac.bd