DHIMAN ROY

- dhimanroy117@gmail.com
- ♥ Mohakhali, Dhaka-1212, Bangladesh

EDUCATION

- M.Sc. in Mechanical Engineering **Bangladesh University of Engineering and Technology**
- ◆ Dhaka-1000, Bangladesh M Ongoing
- B.Sc. in Mechanical Engineering Bangladesh University of Engineering and **Technology**
- **♀** Dhaka-1000, Bangladesh
- **■** Higher Secondary Education in Science **Cantonment Public School And College**
- 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 (MµFEL)

- P Dept. of ME, BUET
- Movember, 2020 Present
- Working as a Research Assistant
- **■** Teaching Experience

Department of Mechanical Engineering in Sonargaon University (SU)

- Working as a Lecturer
- **■** Industrial Experience

In Plant Trainee

- **♀** The ACME Laboratories Ltd.
- 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

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