

# Suchinto Roy Dhrubo

## Prospective Graduate Student

[Portfolio](#) [Google Scholar](#) [ReaserchGate](#) [LinkedIn](#)

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Dhaka, Bangladesh 

## Academic Credentials

### Bachelor of Science in Mechanical Engineering

**CGPA: 3.36/4.00**

Khulna University of Engineering & Technology (KUET), Khulna-9203

Position in Class: 41/140

February 2018 - April 2023

## Research Interests

## Research Experiences

### Additive Manufacturing and Comparison of Mechanical Behaviour

Independent Research Group

Khulna University of Engineering & Technology (KUET), Khulna-9203

Research Supervisor: Dr. Md. Shariful Islam

August 2023 - Present

### Mars Rover

KUET Mars Rover (Team Durbar)

Khulna University of Engineering & Technology (KUET), Khulna-9203

Project Supervisor: Dr. Md. Helal-An-Nahiyan

January 2019 - April 2023

### Undergraduate Thesis & Project

Khulna University of Engineering & Technology (KUET), Khulna-9203

**Thesis Title:** "A Numerical Study of Aerodynamic Performance of Corrugated Airfoil of a Dragonfly Wing Section"

Thesis Supervisor: Dr. Md. Ashraful Islam

March 2022 - March 2023

**Project Title:** "Construction & Performance Test of Electromagnetic Braking System"

Project Supervisor: Dr. Md. Shariful Islam

February 2020 - March 2022

## Selected Publications

### Journals

- Shuvo, M.I.H., Mooaz, N.S., **Dhrubo, S.R.** and Islam, M.A., 2024. A Comparative Analysis of Flap Position for Improved Aerodynamic Characteristics using NACA 4412. Available at SSRN 4859496.

Under Review

- Shuvo, M.I.H., Mooaz, N.S., **Dhrubo, S.R.** and Islam, M.A., 2024. A Comparative Analysis of Flap Position for Improved Aerodynamic Characteristics using NACA 4412. Available at SSRN 4859496.

In Preparation

### Conference Proceedings

- Shuvo, M.I.H., Mooaz, N.S., **Dhrubo, S.R.** and Islam, M.A., 2024. A Comparative Analysis of Flap Position for Improved Aerodynamic Characteristics using NACA 4412. Available at SSRN 4859496. ([View](#))

Published

- Mooaz, N.S., Arefin, M.M., **Dhrubo, S.R.** and Ahmed, A., 2023, December. Transforming UAV Design: Coandă-Based Lift Generation for Enhanced Aerial Performance. In 2023 6th International Conference on Electrical Information and Communication Technology (EICT) (pp. 1-6). IEEE. ([View](#))

Published

- Costa, J.J., Al Kadir, S.T., **Dhrubo, S.R.**, Wahid, M.F., Ratan, Z.A. and Roy, D., 2022, February. A Wearable Hearing Protection Device for Vehicle Drivers to Mitigate the Impact of Sound Pollution for Noisy Places in Bangladesh. In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET) (pp. 135-139). IEEE. ([View](#))

Published

## Professional Experiences

### Synovia Pharma PLC.

**Designation - Executive**

(Formerly known as Sanofi Bangladesh Limited)

December 2023 - Present

- Supervised the Fire Hydrant Pipeline Installation Project and managed ETP and STP operations.
- Ensured compliance with GMP and +QDCI regulatory standards.
- Implemented HSE protocols per BNBC Fire and Electrical Codes, PPE Matrix, DoE Laws-Acts, and DPHE Guidelines.
- Created Site Plan, Zone Layout, Machine Layout, and Man-Material-Waste Flow diagrams using AutoCAD.

## Technical Skills

### CAD & Analyzing Software

SolidWorks, AutoCAD, KeyShot, ANSYS (Fluent), Abaqus CAE

### Programming Language

MATLAB, C/C++, Python, Arduino Programming

### Hardware Skills

Arduino, Basic Sensors

### Operating Skills

3D Printer, Lathe Machine, Milling Machine

### Others

MS Word, MS PowerPoint, MS Excel, Adobe Illustrator, Premiere Pro

## Leadership Experiences

### KUET Mars Rover (Team Durbar)

**Designation - Project Team Lead**

50+ Team Members, June 2021 - March 2023

### Mechanical Engineering Association, KUET

**Designation - Vice President**

500+ Members, March 2022 - February 2023

### CADers

**Designation - IT Officer**

Computer Aided Designing Club of KUET, February 2019 - January 2023

### Bangladesh Scout

**Designation - President's Scout**

Volunteering Movement

## Awards & Achievements

### International Planetary Aerial Systems Challenge

**Rank - 09/27**

Organized by Mars Society South Asia, May 2021

### Indian Rover Design Challenge

**Rank - 10/28**

Organized by Mars Society South Asia, July 2021

### CAD (Mechanical Design), Ignition 2019

**Rank - 1st Runner Up**

Organized by the Department of Mechanical Engineering, KUET, March 2019

### President's Scout Award

**Status - Awarded**

Awarded by Bangladesh Scouts, May 2015

### Shapla Cub Award

**Status - Awarded**

Awarded by Bangladesh Scouts, June 2009

## References

### Dr. Md. Ashraful Islam

Professor

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Khulna University of Engineering & Technology  
(KUET), Khulna-9203

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### Dr. Md. Helal-An-Nahiyen

Professor

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(KUET), Khulna-9203

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