

## DHANANJAY KUMAR

Prime Minister's Research Fellow Mechanical Engineering  
Indian Institute of Technology Guwahati

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### Objective:

Seeking an opportunity to deliver my education, and knowledge in an optimum way with hard work, value addition, and innovation to grow with the organization.

### Academic Education:

Year	Class/Degree	Board	Percentage	Institute
2020-Present	PhD	IIT Guwahati	87.50	IIT Guwahati
2019	M. Tech	NIT Trichy	91.60	NIT Trichy
2015	B. Tech	RPSIT Patna	80.00	Magadh University
2010	Class XII	Patna Muslim High School, Patna	63.60	CBSE
2008	Class X	B.N Collegiate Senior School, Patna	69.00	Bihar School Examination Board

### Technical Skills:

- C, C++
- ANSYS & COMSOL Multiphysics
- MATLAB
- MS office

### Soft Skills:

- Leadership Skills
- Listening & Communication Skills,
- Time Management
- Teamwork and Collaboration

### Publications:

#### Journal Publication

Dhananjay Kumar, Harshad Sanjay Gaikwad, Giridhar R, Pranab Kumar Mondal, P Kaushik **"Influence of microscale swirl flow in mixing: Analytical and numerical study"**, *Physics of Fluids*, (**Under Review**).

#### Conferences Publication

Dhananjay Kumar and Pranab Kumar Mondal **"Mixing investigation in Microchannel having wall axial slip with inlet swirl axial diffusion"** *FMFP-2022*, (**submitted**).

Dhananjay Kumar, Giridhar R and Pranab Kumar Mondal **"Droplet-based mixing in a microchannel with asymmetric inlet in T-junction"** *FMFP-2022*, (**submitted**).

Dhananjay Kumar and Pranab Kumar Mondal **"Numerical Investigation of Swirl flow in Enhancement of Mixing in Narrow Channel"**, *FMFP-2021*, (**Under Publication**).

#### M. Tech Journal

Dhananjay Kumar, Shavitur Mukesh Kumar Shakya, and P. Kaushik. **"Inlet swirl decay and mixing in a laminar micro-pipe flow with wall slip."** *Physics of Fluids* 32.2 (2020): 022008.

**Work Experience:**

- Worked in **WEG Industries Pvt. Ltd (August 2019 - September 2020)** as a “Senior Design Engineer” of Electric Motor & Generator and knowing **SAP, CITRIX, SOLID WORKS (DRAFT SIGHT)**, etc

**Industrial Training**

- Industrial visit to TAQA Neyveli Power Company Pvt Ltd. in the Year 2018.
- Industrial visit to Bokaro Thermal Power Plant in UG in the Year 2014.

**Academic Awards:**

- Recipient of the prestigious Prime Minister's Research Fellowship (September 2020 - Present).
- Participated in “**Blast and Shock Resistant Bio-inspired Functional Materials Design Methodologies**” organized by the Mechanical Department of IIT Guwahati, 2022.
- Participated in the “**48th National Conference on FMFP 2021**” held from 27th-29th December at BITS Pilani, Pilani Campus, Rajasthan, India.
- Worked as **Teaching Assistant (TA)** duties for the NPTEL course, **IC Engine, and Gas Turbines**, 2022.
- Participated in the “**Computational Fluid Dynamics workshop**” organized by the Energy Department of NIT, Tiruchirappalli in 2018.
- **2<sup>nd</sup> Rank holder in PG in NIT Tiruchirappalli** during the year 2017-19.
- **Award of excellence** for highest Attendance and Performance, B.Tech for session 2014-15.
- **1<sup>st</sup> Rank holder in UG in RPSIT Patna** during the year 2011-15.

**Extra-Curricular Activities:**

- Member of HUMANITY & Pupil for Pupil committee (PPC) as a social initiative by **NIT Tiruchirappalli**, 2017-19.
- Member of college cricket team during 2013-14.
- Got **NCC certificate “A”** at school level in 2008.

**Interests and Hobbies:**

- |                   |                                   |
|-------------------|-----------------------------------|
| ➤ Cricket         | ➤ Swimming                        |
| ➤ Football        | ➤ Pranayama                       |
| ➤ Listening Music | ➤ Reading, Teaching, and Learning |

**Personal Information:**

Date of Birth	:	18-02-1993
Gender	:	Male
Father	:	Jaybabu Singh
Linguistic Proficiency	:	English, Hindi
Permanent Address	:	Sultanganj Thana, Gwala Toli, Mahendru, Patna, Bihar - 800006

**Declaration:**

- I hereby declare that the information provided above is true to the best of my knowledge and belief.

Place: Guwahati  
Date: 25-05-2021

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KUMAR