

# DHEERAJ RAJ



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Date of Birth: 31 Oct, 2002

Known Languages: HINDI , ENGLISH , GUJRATI

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## BRIEF SUMMARY

As an Aeronautical Engineer proficient in CFD software such as CATIA and ANSYS, I bring comprehensive expertise in aerodynamic analysis and design. My project involvement in the design and fabrication of a sweepback parachute demonstrates my ability to innovate and solve complex engineering challenges effectively. Complemented by internship experiences at industry leaders like Wing Rock and Bramstra Aerospace. My commitment to precision and enthusiasm for aviation underscore my suitability for roles in aeronautical engineering. With a strong foundation in both theoretical knowledge and practical application, I am eager to leverage my skills to drive advancements in aerospace technology and engineering solutions.

## EDUCATION

PARUL UNIVERSITY, VADODARA GUJARAT	B.Tech. - Aeronautical - PIET   CGPA : <b>6.67/10</b>	2020 - 2024
A N.COLLEGE PATNA ,BIHAR, Patna	12 <sup>th</sup>   BSEB   Percentage: <b>72.60 / 100</b>	2018 - 2020
HOLY FAITH INT. PUB. SCHOOL, Patna	10 <sup>th</sup>   CBSE   Percentage: <b>75.60 / 100</b>	2018

## INTERNSHIPS

**GARUDA AEROSPACE** | Aviation / Aerospace 30 Nov, 2023 - 26 Jan, 2024

DRONE PILOT

**Key Skills:** DRONE OPERATION , DRONE COMPONENTS , DRONE MANUFACTURING .

As an intern at Garuda Aerospace, I actively contribute to a government-sponsored agricultural project aimed at promoting drone technology in farming practices. Engaging in drone piloting, my role involves advancing precision agriculture techniques to enhance crop monitoring and yield optimization. This experience underscores my commitment to cutting-edge technologies and their applications in the agricultural sector.

**Bramstra aerospace** | Aviation / Aerospace

intern

15 May, 2023 - 01 Jun, 2023

**Key Skills:** ROCKET AND MISSILE , PROPULSION SYSTEM , GUIDANCE SYSTEM , SOLIDWORKS , CFDs

"Proficient in the analysis of rockets and missiles using advanced Computational Fluid Dynamics (CFD) software, with a focus on key areas such as propellant selection and flow analysis. Acquired valuable knowledge pertaining to propellant characteristics and their impact on rocket performance.

**wing rock aerospace**

intern

15 Apr, 2022 - 26 May, 2022

Proficiently conducted simulations of flows over both blunt and streamlined bodies using the renowned open-source CFD software, OpenFOAM. Additionally, demonstrated expertise in mathematical modeling of both lifting and non-lifting flows.

## PROJECTS

### DISTRIBUTED PROPULSION SYSTEM ALONG WING SPAN OF UAV

**Mentor:** VISHAL K. NIZAMA | **Team Size:** 3

01 Jun, 2023 -29 Feb, 2024

**Key Skills:** AERODYNAMICS , STRUCTURE, AVIONICS ,AIRCRAFT DESIGN

I spearheaded the development of a cutting-edge Distributed Propulsion System implemented along the wing span of a UAV (Unmanned Aerial Vehicle).

This groundbreaking project involved orchestrating a multidisciplinary team, overseeing design , aerodynamics and implementation phases, and ensuring seamless integration of distributed propulsion technology. Through effective leadership, the project achieved its objectives.

### DESIGN AND FABRICATION OF SWEEP BACK PARACHUTE

**Mentor:** Prof. Vishal Sethi | **Team Size:** 4

01 Jun, 2022 -15 Mar, 2023

Dedicated Team Leader with a strong commitment to personal growth and development, known for effectively navigating challenges as a team leader and member. Possesses a deep understanding of aerodynamics, particularly in the field of parachutes and sweptback designs.

## ACHIEVEMENTS /SEMINARS / TRAININGS /WORKSHOP

1. Led a collaborative effort in the design and fabrication of a sweptback parachute system, achieving a remarkable second-place ranking among project participants during my third year of studies.

**ROCKET AND SATELLITE SYSTEM** Institute Name: ISRO

**Key Skills:** ROCKET AND SATELLITE SYSTEM , TRAJECTORIES , HISTORY OF ISRO

16 Sep, 2022 - 16 Sep, 2022

## EXTRA CURRICULAR ACTIVITIES

ATHLETICISM  
BIKE RIDING

## PERSONAL INTERESTS / HOBBIES

watching aircraft documentary videos , repair electrical appliances

## PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

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Vadodara, Gujarat, India - 391760

**Permanent Address:** SOUTH RAMKRISHNA NAGAR, SAIDANI CHAK  
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