



**Amandeep Singh**  
(Academic Philosopher, AE Engineer & Researcher)

 <https://www.linkedin.com/in/amandeep-singh-ae>

 [amandeepoct97@gmail.com](mailto:amandeepoct97@gmail.com)

 91-9211910555

 India

My Portfolio Web Page

<https://amandeepsinghportfolio.streamlit.app/>



## EDUCATION

- **LOVELY PROFESSIONAL UNIVERSITY**  
Graduation in Aerospace Engineering  
**Completed in 2022**  
**Punjab, India**
- **DEFENCE INSTITUTE OF TECHNOLOGY**  
M.Tech in Aerospace Engineering  
**Pursuing from May 2024**  
**Pune, India**

## SKILLS

### Technical Skills

- Simulation & Design Tools:
- ANSYS (FEA & CFD)
- PTC Creo

### Programming & Development:

- Python
- Web Development
- App Development
- HTML, CSS & JavaScript  
(Beginner Level)
- SQL
- Data Science

### AI Integration:

- AI Tools & ChatGPT  
Applications

### Productivity & Design:

- MS Office Suite (Word, Excel, PowerPoint)
- Canva

## INTERNSHIP

- ANSYS (SPACECLAIM) Software Training
- ANSYS (CAE+CFD) Analysis Training
- GEOMETRIC DIMENSIONING & TOLERANCING
- Spacecraft design

## PATENT

A NOVEL DESIGN FOR SLANT  
BACK TAIL GENERATION  
AIRCRAFT

**APPLICATION NUMBER:**  
**202211013218A**  
**PUBLISHED IN 2022**

## PROFILE

I have always focus upon building up my personality every day, exploring something new and learning new way to develop my skills.

## WORK EXPERIENCE

### Orbitx India Aerospace, Jaipur, Rajasthan, India

Space Tutor Volunteer ( Part Time)

MAR 2024- NOV 2024

- Volunteered as a space tutor at Orbitx India, focusing on aerospace education.
- Guided curious minds through aerospace concepts, fostering understanding and inspiration.
- Contributed to India's space journey through meaningful teaching efforts.

### School of Aeronautics, Neemrana, Rajasthan,India

Instructor

Feb 2024- June 2024

- Serve as an instructor in a school of aeronautics, combining theory with practical learning.
- Guide students through complex topics like flight dynamics, navigation, and aircraft systems.
- Foster curiosity and passion for aerospace among aspiring aviators and engineers.

### Indian Institute of aeronautical engineering college, Dehradun, UttaraKhand

College Lecturer

Aug 2023 - Oct2023

- Worked as a college lecturer at an Indian institute of aeronautical engineering.
- Taught core subjects such as aerodynamics, propulsion, and avionics.
- Guided aspiring engineers in their academic and professional journeys.

### Aharada Education, IIMT UNIVERSITY ,U.P, India

Teaching Faculty

Sept 2022 - Dec 2022

- Served as a teaching faculty at Aharada Education, supporting educators in their roles.
- Facilitated interactive sessions to enhance student engagement and learning.
- Assisted students in understanding and mastering challenging concepts.

### ORBITX INDIA AEROSPACE , Rajasthan, India

Researcher

May 2022- Aug2022

- Conducted research on rocket nozzle design at OrbitX India.
- Focused on optimizing nozzle geometry for maximum thrust and efficiency.
- Balanced thermal and material stress considerations in design processes.

### ORBITX INDIA AEROSPACE , Rajasthan, India

Mentor

Jan 2021- Sept 2022

- Served as a space mentor at OrbitX India Aerospace, guiding students in exploring space sciences.
- Mentored aspiring minds in advanced aerospace concepts and applications.
- Designed and supervised hands-on projects to enhance practical understanding.

## APPRECIATION CERTIFICATE

- BY ORBITX INDIA AEROSPACE  
FOR RLV PROJECT

## MECHANICAL PROJECT'S

- GO KART JAN 2020
- RLV PROJECT

## PROGRAMMING PROJECT'S

- Aerospace Web Page (Self) –  
April 2025
- Aerodynamic Parameter  
Calculator (Self) – Feb 2025
- Solid Rocket Motor Design &  
Analysis (Self) – Feb 2025
- Low Subsonic Wind Tunnel  
Design (Self) – Mar 2025
- Aerofoil Generator App –  
(Self) – Mar 2025
- Fuel-Powered UAV Design  
Calculator –(Self) – Mar 2025
- Jet Engine Performance  
Estimator –(Self) – Mar 2025
- Battery-Powered UAV  
Performance Evaluation –  
May 2024

## Webinar Participation

- Data science vs Machine  
Learning vs Artificial  
Intelligence. Scaler, Mar 2025
- Data science using Gen AI and  
Python. Scaler, April 2025

## WORKSHOP

- Workshop on Welding.
- Workshop on basic  
Manufacturing.
- Workshop on lathe machine.

## Educational Activity

- Idea Generation Workshop on  
Prototype /Process Design &  
Development of Drones  
Speaker May 2023
- Education Tour Airforce museum  
May 2023

## PROGRAMMING CERTIFICATION

■ Python Course For Beginners	Scaler	25/Feb/ 2025
■ Python and SQL For Data Science	Scaler	08/Mar/ 2025
■ Data Science	Scaler	17/Mar/2025
■ Python App Development Master Class App Development Bootcamp	Udemy	28/Mar/2025
■ HTML CSS And Javascript Certification Course For Beginners	Udemy	25/April/2025

## CONFERENCE

■ Global Conference on Aeronautical, Aerospace and Mechanical Sciences	May-2024
PYTHON BASED EVALUATION OF AIRCARFT PEROFRMANCE PARAMETERS FOR BATTERY POWEED UAV DESIGN	
■ International Conference On Emerging Approaches In Mechanical & Automobile Engineering	Mar-2021
A COMPARITIVE STUDY ON EFFECT OF AREA RATIO AND NOZZLE PRESSURE RATIO (NPR) FOR CD NOZZLE — REVIEW	

## RESEARCH PUBLICATION

■ REVIEW PAPER ON CFD ANALYSIS OF DIFFERENT NACA AIRFOIL SERIES	
<u>Journal of Emerging Technologies and Innovative Research</u>	March-2024
■ PYTHON PROGRAMMING IN THE AEROSPACE INDUSTRY	
<u>International Journal of All Research Education &amp; Scientific Methods</u>	Feb-2024
■ CASE STUDIES IN MISSILE DESIGN FAILURES BY CFD SIMULATION	
<u>INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS</u>	Sept-2023
■ WIND TUNNEL DESIGN	
<u>International Journal of Research and Analytical Reviews</u>	Nov-2022
■ EFFECT OF PRESSURE COEFFICIENT ON MISSILE DESIGN	
<u>International Research Journal of Engineering and Technology</u>	Dec-2020
■ FLOW VARIATION OVER BI-CONIC NOSE PROFILE AT DIFFERENT ANGLE OF ATTACK	Oct-2020
<u>INTERNATIONAL JOURNAL OF SCIENTIFIC DEVELOPMENT AND RESEARCH</u>	
■ AERODYNAMIC ANALYSIS ON MISSILE DESIGN	
<u>INTERNATIONAL JOURNAL OF SCIENTIFIC DEVELOPMENT AND RESEARCH</u>	Sept-2020

