



Amandeep Singh
(Academic Philosopher, AE Engineer & Researcher)

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India

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 & 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

