

AYUSH SINGH

Sophomore pursuing Mechanical Engineering at PDEU, India

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SUMMARY

Demonstrated academic excellence as a Mechanical Engineering student at PDEU, with a strong foundation in Computational Fluid Dynamics (CFD), Programming, and Advanced Manufacturing. Engaged in national-level rocketry competition, internships, and organized events in student clubs. Pursued research interests in robotics, fluid mechanics, and additive manufacturing, aiming to contribute to innovative projects at ASU under esteemed faculty mentorship.

EXPERIENCE

Core Tech Member

Apogee3 - The Aerospace Society PDEU

📅 07/2024 - Present 📍 Ahmedabad, India

Systems Engineering

- National Rocketry Competition
- Developed Propulsion Methods and Flight Computers
- Raised Sponsorship of \$3600

Space Science Content Developer Intern

Tanmayes Amazing Space

📅 09/2023 - 12/2023 📍 Ahmedabad, India

ISRO Recognized Space Tutor Program

- Highlight your accomplishments, using numbers if possible.

President & Founder

ScinKowTech VIPNET Science Club

📅 05/2021 - 03/2023 📍 Ahmedabad, India

Registered under Government of India

- Organized 20+ events

Intern

Royal Technosoft Pvt Ltd

📅 06/2020 - 07/2020 📍 Ahmedabad, India

Company Description

- Trained around 800 International students for C programming, Game Development with Unity

EDUCATION

Bachelor of Technology - BTech, Mechanical Engineering

Pandit Deendayal Energy University (PDEU)

📅 07/2023 - 07/2027

SKILLS

CFD	Engineering Design	Programming	Web Development
Event Management	Leadership	Public Speaking	
Lawn Tennis			

KEY ACHIEVEMENTS

Additive Manufacturing of Batteries - Recent Trends and Challenges

Presented a review paper at the 1st International Symposium on Battery Technology - Recent Trends and Advances, jointly organized by PDEU, McMaster University and Toronto Metropolitan University.

CERTIFICATION

Java SE 8 Fundamentals

Oracle

C, C++, HTML-CSS, Python, Arduino, Java Course

Royal Technosoft Pvt Ltd

TRAINING / COURSES

Essentials of Model Rocketry, ISRO

Basics of CFD, PDEU

CNC Turning, PDEU

Designing with NX, PDEU

Advanced Welding Processes, PDEU

Data Science Odyssey, PDEU

AWARDS

🏆 1st Rank in 1st year, Mechanical Engineering

🏆 Panelist at "Science Festival - Make - Innovate - Lead"

🏆 3rd Winner in National COVID-19 Idea Challenge on 'AI & Robotics'

🏆 Finalist, Children Innovation Festival - 2k19

PUBLICATIONS

Property Dependence of Hot Cracking in LPBF for different materials

15th International Conference on Advancements in Polymeric Materials · Mar 12, 2024

Dr Vishvesh Badheka, Chaitya Doshi

📅 03/2024 🔗 <https://www.cipet.gov.in/apm2024.php>

The Abstract of Review Paper was published in the Conference Proceedings 115 (P88).

India Studying The Sun

SciKnowTech Young Science Writer's Program

Dr Megha Bhatt, Dr Saleel Bhatt, Sofia Shahiwala

📅 10/2019

🔗 <http://sciknowtech.com/india-studying-the-sun/>

Aditya L1 Mission Description at the time of mission announcement.

LANGUAGES

English
Proficient



Hindi
Native



Gujarati
Native



VOLUNTEERING

Coordinator, CFD Workshop

[Pandit Deendayal Energy University](#)

📅 07/2024

Training and Management at CFD Workshop

Ambassador for Additive Manufacturing

[Pandit Deendayal Energy University](#)

📅 2023 - 2024

Conducting Workshops on Additive Manufacturing and spreading the word on non-conventional manufacturing.

Lawn Tennis Core Member

[Pandit Deendayal Energy University](#)

📅 2024 - Present

Organizing and Managing Lawn Tennis events at PDEU.

Event Coordinator

[1st International Symposium on Battery Technology - Advances and Future Trends](#)

📅 01/2024

Jointly organized by ICTEA, McMaster University, Toronto Metropolitan University and the Department of Mechanical Engineering, School of Technology, PDEU.

PROJECTS

Predictive Analysis of Multi-effect Distillation Systems

📅 2024 - Present 📍 Gandhinagar, India

- Working on decreasing size of the system by 30%

Real Time Monitoring System in LPBF

📅 2023 - 2024 📍 Gandhinagar, India

Developed a system for GTAW system which will now be converted for use in LPBF

- Raised \$1000

PASSIONS

💎 **CFD and Fluid Mechanics**

💎 **Aerospace**

💎 **Model Rocketry**

💎 **Additive Manufacturing**

💎 **Welding**

💎 **Astronomy**