AYUSH SINGH

MECHANICAL ENGINEERING STUDENT

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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 under esteemed faculty mentorship.

EDUCATION

Bachelor of Technology, Mechanical Engineering | Pandit Deendayal Energy University

2023 – 2027

SKILLS & INTERESTS

CFD | CAD | Welding | Additive Manufacturing | Programming | Model Rocketry | Aerospace Engineering | Astronomy | Event Management | Leadership | Public Speaking | Art | Lawn Tennis

WORK EXPERIENCE

Core Technical Member | Apogee3 – Aerospace Society of PDEU

2023 - Present

- National Rocketry Student Team
- Ascent Mission Design, Propulsion, Design & Analysis, Flight Computer
- Raised Sponsorship of \$3,600

Space Science Content Developer Intern | Tanmaye's Amazing Space

2023

- ISRO Recognized Space Tutor
- Extensive Research on the Sun

President & Founder | SciKnowTech VIPNET Science Club

2021 - 2023

- Registered under the government of India
- Organized 20+ events

Battery Technology | Gandhinagar

Trainer (Intern) | Royal Technosoft Pvt. Ltd.

2020

2024

Trained more than 800 International students for C programming and game development with Unity

PROJECTS

Property and Composition Dependence of hot cracking in LPBF for different materials IMECE-INDIA-25		
Hyderabad		2025
Predictive Analysis of Multi-Effect-Distillation System using ANN ICAWTM-25 Gandhinagar	1	2025
Real Time Monitoring System for LPBF ICAWTM-25 Gandhinagar	2023 –	2024
Additive Manufacturing of Batteries Recent Trends and Challenges 1st International Symposium on		

PROFESSIONAL DEVELOPMENT

	THO EGGIOTAL DEVELOT FLAT	
	Vibration Analysis Bootcamp (10 hrs.) ASME, PDEU Gandhinagar	2025
	CNC Turning (40 hrs.) PDEU Gandhinagar	2024
	Essentials of Model Rocketry (10 days) IN-SPACe, ISRO Bangalore	2024
	LaTeX for Scientific Writing (16 hrs.) PDEU Gandhinagar	2024
	Computational Fluid Dynamics (40 hrs.) PDEU Gandhinagar	2024
	Basics of Modelling in NX (40 hrs.) PDEU Gandhinagar	2024
	Basics of Computational Fluid Dynamics (40 hrs.) PDEU Gandhinagar	2024
	Advanced Welding Processes (40 hrs.) PDEU Gandhinagar	2024
	Metal Additive Manufacturing, Intech iFusion SF1 (24 hrs.) IIW, PDEU Gandhinagar	2023
	Data Science Odyssey (40 hrs.) PDEU Gandhinagar	2023
	C, C++, HTML-CSS, Python, Arduino, Java Royal Technosoft Ahmedabad	2019 – 2021
	Advanced Art Course Kanoria Center for Arts Ahmedabad	2014 – 2017
	HONORS & AWARDS	
	3rd rank, Mech-A-Thon – Mechanical Hackathon PDEU Gandhinagar	2025
	Consolation Cash Prize, MSP Cup Hackathon IEEE, PDEU Gandhinagar	2024
	1st rank in Mechanical Engineering, 1st Year PDEU Gandhinagar	2024
	Panelist in "Science Festival – Make, Innovate, Lead" Respire, GUJCOST Ahmedabad	2021
	3rd Winner in National COVID-19 Idea Challenge on 'AI & Robotics' VASCSC Ahmedabad	2020
	Finalist, Children Innovation Festival - 2k19 GUSEC Ahmedabad	2019
	VOLUNTEERING	
	Coordinator, Basics of CFD PDEU Gandhinagar	2025
	Lawn Tennis Core Member Sports Committee, PDEU Gandhinagar	2024 – Present
	Ambassador for Additive Manufacturing PDEU Gandhinagar	2023 – 2025
	Coordinator, Basics of CFD PDEU Gandhinagar	2024
Event Coordinator, 1st International Symposium on Battery Technology ICTEA, McMaster University,		
	Toronto Metropolitan University, PDEU Gandhinagar	2024
	Science Carnival SciKnowTech Ahmedabad	2024
	Technical Member Encode – Programming Club, PDEU Gandhinagar	2023 - 2024
	Logistics Member Daastan – Drama Club, PDEU Gandhinagar	2023 - 2024
	CERTIFICATION	
	Java SE 8 Fundamentals Oracle Ahmedabad	2020
	Intermediate Art Certification Art Directorate of the Government Ahmedabad	2017
	Elementary Art Certification Art Directorate of the Government Ahmedabad	2016
	A OTIVITIES AND SOCIETIES	

ACTIVITIES AND SOCIETIES

American Society of Mechanical Engineers	2024 – Present
Indian Institute of Welding	2023 – Present