Jay Kacha

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Professional Summary

Quantitatively-skilled Mechanical Engineering student with strong analytical capabilities and proven problem-solving skills. Combines hands-on corporate experience with technical engineering expertise and demonstrated aptitude for pattern recognition and data-driven decision making. Passionate about applying analytical frameworks to complex, dynamic systems. Seeking opportunities to leverage this unique skillset in quantitative finance and market analysis roles.

Education

Sardar Vallabhbhai National Institute of Technology, Bachelor of Technology in Mechanical Engineering — Nov 2022 – May 2026

- CGPA: 7.80/10

Queen of Angels' Convent Higher Secondary School, HSC and SSC — Jun 2008 – Jun 2022

- HSC: 88.2
- SSC: 95.6

Experience

Web Development Head, SAE Phoenix Aero - SVNIT, Surat — May 2024 – May 2025

- Led a 5-member team to design and launch SAE Phoenix Aero's website, improving user engagement by 30 percent.

Head, MindBend 2025 - SVNIT, Surat — Nov 2024 – Apr 2025

- Played a crucial role in planning and executing tasks for the Guest Lecture committee, demonstrating exceptional organizational and group management skills. Excelled in collaborative environments, showcasing the ability to work effectively within a team and drive successful outcomes.

Industrial Intern, Aditya Birla Grasim Industries Ltd. — May 2025 – Jul 2025

- Analyzed production data to identify patterns in equipment performance and maintenance needs.
- Prepared technical reports with financial implications for senior management decision-making.
- Gained exposure to large-scale industrial operations and corporate decision-making processes.

Certifications — May 2024 – Jul 2024

- Expert in Product Design and Analysis
- Proficient in Ansys Fluent
- Proficient in SolidWorks
- German Language A2(RWTH Aachen)

Projects

- Engaged in the design optimization and efficiency enhancement of Vertical Axis Wind Turbines through detailed research, innovative modifications, and rigorous analysis.
- Participated in the Boeing Aeromodelling Competition 2023, designing an RC aircraft within tight constraints and utilizing extensive materials, demonstrating strong problem-solving, innovation, and technical skills.
- Participated in the SAE DDC, designing and constructing Micro and Regular class RC aircrafts, showcasing advanced technical skills, innovation, and teamwork.
- Both projects required the intensive development of payload carrying capacity and precise dropping mechanisms, while maintaining the aircraft weight below given parameters, highlighting advanced engineering and problem-solving capabilities.

Technical Skills

CAD: SolidWorks, CATIA, NX CAD

Simulation: Ansys Workbench, Ansys Fluent, MATLAB

Programming: C++, Java, HTML/CSS

Extra-curricular

- Achieved recognition as a state-level football player, demonstrating exceptional athleticism, teamwork, and dedication.
- Athletic with a strong sports background and a growth mindset, consistently demonstrating optimism and resilience in both sports and personal development.
- Actively engaged with NGOs dedicated to the welfare of nature and society, contributing to environmental conservation and community development initiatives.