

Patel Vedant Bhagyeshkumar (B. Tech- Mechanical Engineering)

📍 23-SARDAR PARK SOC, VISNAGAR ROAD OPP GEB,

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Career Objective:

To build a strong and impactful career in engineering by applying my technical skills, creativity, and problem-solving abilities toward innovative product development and advanced manufacturing solutions. I aspire to continuously learn, contribute to organizational success, and evolve as a competent engineering professional.

Educational Qualification:

| Year | Major Degree | Name of Awarding Body |
|-------------|-------------------------------------|--|
| 2026 | B. Tech (Mechanical Engineering) | Ganpat University, India |
| 2023 | Diploma (Mechanical Engineering) | Ganpat University, India |
| 2020 | 10th (S.S.C.) | Gujarat Secondary and Higher Secondary Education Board |

Academic Achievements:

• Co-ordinator at National Convergence 2025:

Played a key role in coordinating the flagship national university event aimed at fostering innovation, entrepreneurship, and multidisciplinary integration in Engineering and Technology. Responsibilities included event planning, stakeholder engagement, and end-to-end execution. Developed professional networking skills and hands-on experience in managing large-scale technical forums

• Co-ordinator at National Additive Manufacturing Conclave 2025:

Actively contributed to the organization of a national-level event focused on advanced Additive Manufacturing technologies and industry-academia collaboration. Managed delegate coordination, speaker interactions, event logistics, and technical session support. Gained exposure to the latest AM advancements, industrial applications, and expert insights while demonstrating strong leadership, communication, and teamwork skills.

- **Internship at Oil and Natural Gas Corporation Ltd. (ONGC)**

Gained hands-on industrial exposure within India's leading oil & gas exploration and production company. Assisted the engineering team in understanding upstream operations, equipment maintenance procedures, safety standards, and production workflows. Learned the fundamentals of offshore/onshore systems, drilling technologies, and process monitoring to ensure operational integrity and resource optimization. Strengthened practical knowledge in industrial best practices, teamwork, and compliance with national safety and environmental guidelines. Key Learning Outcomes are as follows:

- ✓ Understanding of petroleum production systems and mechanical equipment used in field operations
- ✓ Exposure to maintenance methodologies and preventive inspection workflows
- ✓ Familiarity with industrial safety protocols and risk mitigation practices
- ✓ Interaction with technical professionals enabling improved problem-solving and communication skills

Academic Project/Research:

Focused on enhancing the mechanical properties of polymer-based components by reinforcing them with composite fillers through Additive Manufacturing. Investigated the influence of material composition, printing parameters, and reinforcement orientation on part strength, durability, and lightweight performance. Conducted experimental trials including tensile and flexural testing to evaluate improvements in structural integrity. Key Contributions are as follows

- Material selection and composite formulation for FDM-based 3D printing
- Process parameter optimization for improved mechanical characteristics
- Hands-on experience in testing, characterization, and data interpretation
- Application relevance: lightweight industrial components for energy & automotive sectors

Hands on Expertise/Skills:

- Skilled in handling and operating manufacturing equipment.
- Knowledge of basic industrial management.
- Experienced in 3D printing operations and machine handling.
- Able to perform basic quality checks and inspection procedures.
- Understanding of production workflow and shop-floor processes.
- Focused on accuracy, safety, and continuous improvement in manufacturing tasks.

Personal Information:

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|----------------|----------------------------|
| Full Name | Patel Vedant Bhagyeshkumar |
| Date of Birth | 23/04/2004 |
| Gender: | Male |
| Language Known | English, Gujarati, Hindi |

References:

Dr. Bhavesh Patel
Professor
Department of Mechanical Engineering
Ganpat University
Email: bpp01@guni.ac.in

Declaration:

I hereby declare that all the information provided in this resume is true and correct to the best of my knowledge. In case any information is found to be incorrect or requires clarification, I will be happy to provide the necessary details.

Date:

Place: Mehsana (Gujarat)

(Patel Vedant Bhagyeshkumar)