

# Jignesh Marvadi

Mechanical Engineering

L.D. College of Engineering

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B.E

Male

Examination	University	Institute	Year	CGPA/%
Graduation	GTU(Mech)	LDCE Ahmedabad	2022-26	7.56
HSC	GSEB	GNFC Narmada	2021-22	62.61
SSC	GSEB	Vidyalaya Bharuch Queen of Angels Convent School, Bharuch	2019-20	74.83

## PROJECTS

- **Industrial Arm for MIG (Metal Inert Gas) Welding** (Feb'25-Aug'25)
  - Led the design and mechanical development of a 6-DOF (Degree of Freedom) welding robotic arm specifically built for MIG(Metal Inert Gas) welding applications. As the Design Head, managed the complete design process, including arm structure, motion range, and precision alignment to ensure high welding accuracy. The project was funded by SSIP (Student Startup and Innovation Policy) and aimed to provide a cost- effective, Made-in-India solution for industrial automation.
- **Warehouse Management System** (April'24-Aug'24)
  - Served as the Design Head, leading the design and hardware development of a compact warehouse management robot built for efficient picking and placing of boxes in tight warehouse spaces. Oversaw the integration of a scissor lift mechanism, barcode scanner, and night vision camera to enable autonomous operation in dark stores and low-light environments. The project was funded by iCreate (International Centre for Entrepreneurship and Technology) and selected for the grand finale of Gujarat Robofest 4.0.
- **Hotel Management System** (Sep'23-Oct'23)
  - Contributed to the mechanical and hardware development of an interactive robot designed for multifunctional tasks. Involved in the design, assembly, and testing of the robot's structure and movement systems. The project received funding support from SSIP (Student Startup and Innovation Policy) and was successfully showcased at the grand finale of Gujarat Robofest 3.0.

## TECHNICAL SKILLS

- **CAD Design** : Fusion 360
- **Simulation Tools** : FEA (Finite Element Analysis), CFD (Computational Fluid Dynamics) in ANSYS
- **Engineering Management** : BOM (Bill of Materials) Preparation, Project Documentation

## WORK EXPERIENCE & INTERNSHIPS

- **Freelance CAD Designer | Vishwa Industries Ahmedabad** (April'24-Dec'24)
  - Created detailed 2D design sheets and 3D models of gears and gearboxes.
  - Used Fusion 360 for designing based on client requirements.
  - Worked directly with clients to support various industrial applications.
- **Summer Intern | Gujarat State Electricity Corporation LTD** (June'25-July'25)
  - Gained hands-on experience in operation of turbines, boilers, and cooling systems.
  - Observed and understood the working of thermal power generation and energy conversion processes.
  - Learned about equipment maintenance, system efficiency, and thermal cycle performance.
  - Interacted with plant engineers to understand practical challenges in large-scale power plants.

## ACHIEVEMENT

- ₹1,00,000 SSIP (Student Startup and Innovation Policy) Grant – Industrial Welding Robot
- ₹50,000 iCreate (International Centre for Entrepreneurship and Technology) Grant – Warehouse Robot
- Design Patent Granted – Warehouse Management Robot
- Winner – ₹2.5 Lakhs Grant & Grand Finalist at Gujarat Robofest 4.0

## AREA OF INTEREST

- Power Plant Engineering
- CAD designing and Simulation
- Production and assembly

## HOBBY

- Cricket
- Photography