

PIYUSH UTTAM SHINDE

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PROFESSIONAL SUMMARY

Results-driven Mechanical Engineering student with hands-on expertise in CAD modeling, industrial product design, and mechatronic systems. Demonstrated track record leading multidisciplinary engineering projects from conceptual design and kinematic modeling to functional prototype fabrication. National innovation finalist with strong analytical competencies in CAE, CFD, and embedded automation.

EDUCATION

Bachelor of Engineering in Mechanical Engineering <i>KLS Gogte Institute of Technology, Belgaum, Karnataka</i>	Expected July 2027
Pre-University Course (PUC) <i>G.S.S. College, Belgaum, Karnataka</i>	2023
Secondary School Leaving Certificate (SSLC) <i>Precious Blossoms High School, Belgaum, Karnataka</i>	2021

TECHNICAL SKILLS

- **Design & CAD:** CATIA, SolidWorks, 3DEXPERIENCE, Autodesk Fusion, AutoCAD, Parametric 3D Modeling, Product Design
- **Simulation & Analysis:** Computer-Aided Engineering (CAE), Computational Fluid Dynamics (CFD), ANSYS, SimScale, 3DEXperience (Dassault Systems)
- **Automotive Systems:** Chassis & Suspension Design, Powertrain & IC Engines, Braking Systems, EV Drivetrain Fundamentals
- **Robotics & Automation:** Industrial Robotics Implementation, Embedded Systems, PLC Automation
- **Programming & Tools:** C++, Python
- **Languages:** English (Fluent), Marathi (Native), Hindi (Fluent)

KEY PROJECTS

Eco Marine Tech — Autonomous Surface Vessel (ASV) / *Project Lead*

- Directed end-to-end design, chassis modeling, and mechanical integration of an autonomous surface vessel engineered for aquatic debris collection.
- Engineered and fabricated a motorized conveyor intake mechanism to continuously harvest and store surface waste efficiently.
- Integrated a hybrid renewable energy architecture leveraging solar and wave energy harvesting to maximize field operational run-time.
- Coordinated multidisciplinary project deliverables across mechanical structural fabrication, power distribution, and navigation modules.

6-DOF Robotic Arm Design & Kinematics / *Mechanical Designer*

- Developed a comprehensive 3D parametric CAD assembly of a 6-Degrees-of-Freedom robotic arm tailored for pick-and-place automation.
- Optimized link geometry, joint clearances, and mounting brackets in CAD to achieve structural rigidity and payload-to-weight balance.

ACHIEVEMENTS & COMPETITIONS

- **Finalist:** KPIT Sparkle & KPIT K-IMPACT (2026) — Autonomous Surface Vessel Innovation
- **1st Prize:** Project Presentation at International Society of Automation (ISA) I-ACT 2025
- **Participant:** Speed CAD Modeling Challenge & PLC Automation Challenge, ISA I-ACT 2026

CERTIFICATIONS

- Industrial Robotics Implementation — Course Completion
- Product Design and Manufacturing — Course Completion
- Microcontroller Embedded C Programming — Course Completion
- Design for Sustainability — Engineering & Product Lifecycle Certification
- Agentic AI Workshop & Applications — ISA I-ACT 2026