

KAMALKISHOR AMBHORE

Mechanical Engineer (B.Tech)

Phone: +91 95185 93149

Email: karanambhore003@gmail.com Location:

Pune, Maharashtra, India

PROFESSIONAL SUMMARY

Results-driven Mechanical and Automobile Engineer with strong expertise in vehicle dynamics, suspension kinematics, CAD modeling, and FEA simulation. Proven experience in automotive design, chassis optimization, and performance testing through national-level competitions. Skilled in design validation, structural analysis, and optimization techniques with a passion for automotive engineering, research, and innovation.

EDUCATION

B.Tech in Mechanical Engineering (2022 – Present)

GH Raisoni College of Engineering and Management, Pune

CGPA: 7.31 (Till 6th Semester)

Higher Secondary Certificate (HSC) | 2022

Shri Shivaji College of Arts, Commerce & Science, Akola | 66.17%

Secondary School Certificate (SSC) | 2020

School of Scholars, Akola | 74.60%

TECHNICAL SKILLS

- CATIA V5 (Part Design, Assembly, Drafting)
- AutoCAD, SolidWorks
- CAE- ANSYS Workbench (Structural, Dynamic, Thermal, CFD, FEA)
- CAE- Explicit Dynamic (Crash Test)
- Topology Optimization
- Vehicle Dynamics & Suspension Geometry
- Chassis & Roll Cage Design
- Steering and Braking Systems
- Manufacturing Processes (Welding, Cutting, Grinding, 3D Printing)
- GD&T and DFMEA
- Design Optimization & Validation

EXPERIENCE & LEADERSHIP

Captain – Team Pravegh (Go-Kart Team)

- Led a 30-member team through design, fabrication, and testing phases.
- Improved vehicle performance through structural tuning and load analysis.

Design & Analysis Engineer – Team Abhyuday (E-Baja SAEINDIA)

- Responsible for chassis design, suspension geometry, and FEA reports.
- Conducted simulation-driven optimization to improve strength-to-weight ratio.

President – MESA Club

- Organized technical workshops, guest lectures, and engineering events.

Team Leader & Volunteer – NSS

- Led environmental campaigns and rural development projects.

PROJECTS

- Go-Kart Design & Fabrication (AIRC 2023 & 2024): Designed and fabricated IC enginebased Go-Kart with structural optimization using FEA.
- E-BAJA SAEINDIA 2025: Designed electric ATV with optimized suspension geometry.
- A-BAJA 2025: Developed autonomous ATV with adaptive cruise control and sensor navigation.
- Final Year Project: Development of Peltier-Assisted Atmospheric Water Generator (AWG) system.

ACHIEVEMENTS

- AIR 6 & 2nd Place in Acceleration – Auto India Racing Championship 2023
- Winner – A-BAJA 2025 (Adaptive Cruise Control Category)
- 2nd Runner-Up – E-BAJA 2025
- Runner-up – Talkathon 2024
- 2nd Place – Inter-College Volleyball Tournament 2024
- Featured in Edgeline Championship Magazine

CERTIFICATIONS

- CATIA V5 – 3D Modeling & Drafting
- ANSYS – Structural, Thermal, CFD, Dynamic Simulations

SOFT SKILLS

- Leadership
- Team Collaboration
- Problem Solving
- Communication
- Adaptability
- Decision Making
- Project Management

LANGUAGES

- English
- Hindi
- Marathi
- German

INTERESTS

- Photography
- Videography
- Music (Rapping)
- Cooking

DECLARATION:

I HEREBY DECLARE THAT THE ABOVE INFORMATION IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLACE: PUNE

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