

SEJAL VIJAY BHOSALE

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PROFESSIONAL SUMMARY

Mechanical Engineering graduate (CGPA: 8.18) with skills in CAD modeling, ANSYS, and Finite Element Analysis (FEA). Strong in problem-solving, teamwork, and adaptability with a willingness to learn new technologies. Seeking an entry-level opportunity to apply technical knowledge and contribute to innovative solutions.

EDUCATION

Bachelor of Engineering (Mechanical Engineering) - CGPA: 8.18

Gogte Institute of Technology, Belagavi

Pre-University Course (Science) - Percentage: 80%

Govindram Seksaria Science PU College, Belagavi

SSLC - Percentage: 91.2%

Gajananrao Bhatkande English Medium High School, Belagavi

TECHNICAL SKILLS

Design & CAD: AutoCAD, SolidWorks, ANSYS Mechanical APDL

Engineering Analysis: FEA, Stress & Deformation Analysis, Meshing

Design & Manufacturing: CAD Modelling, Engineering Drawing, Manufacturing & Product Design Basics

Programming: C (Basic), Java (Basic)

Office Tools: MS Excel, PowerPoint, Word

CERTIFICATIONS

- ANSYS Mechanical Simulation
- C Programming Workshop – Gogte Institute of Technology
- GE Aerospace – Explore Engineering Job Simulation - Forage | 2026

ACADEMIC PROJECTS

Solar Powered Air Cooler and Heater

- Designed a solar-powered system for cooling and heating.
- Integrated solar panels, battery storage, and water circulation.
- Applied thermodynamics to improve efficiency.
- Developed an eco-friendly solution reducing power consumption.

ANSYS Mechanical Analysis Project

- Performed FEA using ANSYS Mechanical APDL.
- Applied meshing, loads, and boundary conditions.
- Analyzed stress and deformation.
- Gained experience in simulation-based design.

INDUSTRIAL VISITS

- Participated in an industrial visit to a manufacturing facility.
- Observed machining, assembly, and maintenance operations.
- Gained exposure to workflows, safety practices, and equipment use.
- Understood production planning and process flow.

ADDITIONAL PROJECT

Stress Concentration Analysis and Simulation Using ANSYS Mechanical APDL

- Modelled and analysed a component in ANSYS APDL for stress concentration.
- Applied material properties, loads, and boundary conditions.
- Performed meshing and stress/deformation analysis.
- Identified critical stress regions and evaluated performance.
- Suggested design improvements for reliability.
- Strengthened skills in FEA and simulation-based design.

Key Skills: ANSYS APDL, FEA, Stress Analysis, Meshing, Structural Simulation, Design Validation

LEADERSHIP & RESPONSIBILITY

Leadership & Activities

- Coordinated and collaborated on academic projects.
- Participated in technical events, workshops, and seminars.
- Assisted in organizing departmental activities.
- Demonstrated teamwork and communication skills.

ACHIEVEMENTS & ACTIVITIES

- Participated in technical workshops and engineering seminars.
- Active learner in CAD design and simulation tools.
- Interested in automotive engineering and sustainable technologies.
- Participated in project exhibitions and technical events.