Gururaj Kammar

Bagalkote, Karnataka
+91 7760100571 | gururajkammar7406@gmail.com
linkedin.com/in/gururaj-kammar

SUMMARY

Mechanical Engineering undergraduate at Basaveshwara Engineering College, Bagalkot, with hands-on experience in mechanical design, product development, and innovation. Experienced in developing gravity-based energy storage systems, including a project supported by ₹4.90 lakh in seed prototype funding under K-Tech's NAIN 2.0. Skilled in CAD and design tools including Fusion 360 and SolidWorks, with knowledge of manufacturing processes. Passionate about developing practical engineering solutions and contributing to innovative product development.

EDUCATION

Bachelor of Engineering (B . E) - Mechanical Engineering
Basaveshwara Engineering College, Bagalkot
2023 – Present

Pre-University Course (PUC) – Science
Jawahar Navodaya Vidyalaya, Gadag
2021 – 2023 | Percentage: 63.5%

SSLC / 10th Standard
Jawahar Navodaya Vidyalaya, Gadag
2020 – 2021 | Percentage: 69.8%

TECHNICAL SKILLS

CAD & Design: Fusion 360, SolidWorks, CAD

Manufacturing: CNC, Manufacturing Processes, Additive Manufacturing

Engineering Knowledge: Materials Science, Non-Destructive Testing (NDT)

Other: Intellectual Property Rights (IPR)

ACHIEVEMENTS

- Selected for Jawahar Navodaya Vidyalaya, Gadag, through the competitive JNV selection process; completed Classes VI–XII.
- Govt. of Karnataka – NAIN 2.0 Grant Recipient: Secured ₹4.90 Lakh in seed prototype funding under K-Tech's NAIN 2.0 for Design and Development of a Gravity-Based Energy Storage System.
- 1st Prize – Avishkaar 2025: Won first prize for Development of Gravity Battery at the college-level project exhibition.
- Finalist – Top 6 Teams, IKS Hackathon – SAMYUTI 2026, Chanakya University, Bengaluru, for Advaita-Vani Engine.
- 1st Place – Carrom: Secured first place at Basaveshwar Engineering College.
- 2nd Place – Mecho Fix: Secured second place at INSIGNIA 2026, SDM College of Engineering & Technology, Dharwad.

ACADEMIC PROJECTS

1. **Mini Project – Gravity-Based Energy Storage System**
   - Designed and developed a basic gravity-based energy storage system using gravitational potential energy for energy storage and recovery.
   - Developed a mechanical setup using a motor-driven lifting mechanism to raise and release a weight for energy storage and recovery.
   - Evaluated the basic operating principle, system configuration, and feasibility of gravity-based energy storage.
2. **Major Project – Design and Development of Gravity-Based Energy Storage System**
   - Designed and developed an improved gravity-based energy storage system focused on enhancing system efficiency and operational performance.
   - Integrated two motors into the system, with separate mechanisms for lifting the weight and converting its downward motion into electrical energy.

- Worked on improving the mechanical design, operating mechanism, and overall system efficiency compared with the mini-project prototype.

3. **Advaita-Vani Engine - IKS Hackathon – SAMYUTI 2026, Chanakya University | Finalist – Top 6 Teams | 2026**

- Developed a full-stack web application using React and Node.js to analyze rhythmic patterns in Sanskrit prosody (Chandas).
- Implemented algorithms to classify Sanskrit and Mātrā Chandas based on Laghu and Guru syllable patterns.
- Presented and pitched the solution to a judging panel, securing a Top 6 position at SAMYUTI 2026

CERTIFICATIONS

- NPTEL Elite – Computer Integrated Manufacturing, IIT Kanpur | 71%
- Autodesk Fusion 360 – Product Design & Manufacturing (CAD & CAM) | Autodesk Authorized Academic Partner | 30 Hours
- AtheneX Hackathon – Certificate of Participation | BMSCE & DSCE | 2026
- IKS Hackathon – Certificate of Participation | Chanakya University, Bengaluru | 2026
- EDU-VITALITY – Certificate of Participation | RV College of Engineering, IEEE ComSoc & Intel | 2024

INTERESTS

- Video Editing
- Poster Design
- Branding & Visual Design
- Mechanical Design & CAD
- Innovation & Product Development