

Vinayak M Holliyavarmath

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Bengaluru, Karnataka.



MECHANICAL ENGINEERING STUDENT | BRIDGING DESIGN, AUTOMATION & EMERGING TECH

Mechanical Engineering student focused on CAMD, FEA, and product development. Passionate about robotics, automation, and the integration of AI in engineering systems. Strong understanding of mechanical design principles with a growing interest in electrical automation components like motors, microcontrollers, and sensors. Eager to apply interdisciplinary skills in innovative engineering projects and real-world applications.

EDUCATION & CERTIFICATIONS

B. Tech - Mechanical Engineering
PES University - 2026

KLE Society's PRERANA RESIDENTIAL COLLEGE
XII, Science - 2022

KLE Society's School, Gadag
10th Standard - 2020

Industrial Pneumatics
PES University

Fundamentals of Digital Marketing
Google Digital Garage (Online), 2020

SKILLS

SOLIDWORKS	HyperMesh
Solid Edge	MATLAB
Ansys	Canva
Python	

ONGOING PROJECTS

Autonomous Swarm Drones for Light Show Applications
PES University Oct 2024 - Present

EXPERIENCE

Research Intern – Vertical Aerial Paint Spraying Mechanism for Drones

Mobile Autonomous and Robotics Lab, Centre for IoT, PES University

- Developed a vertical paint spraying mechanism for drones, including a custom-built 2-DOF pan-tilt gimbal system with motorized actuators for precise nozzle orientation and automated operation.
- Integrated electrical and mechanical components, optimized paint coverage and payload balance, and contributed to testing and refinement to ensure stable, efficient aerial spraying performance.

CLUBS

Team Haya Off-Roading Oct 2023 - Present

• Brakes and Wheel Assembly

Designed and analysed brake and wheel assembly for a solar car, enhancing efficiency and durability.

Developed optimised 3D models using SOLIDWORKS.

Performed static structural analysis in Ansys Workbench to validate the design.

• Graphic Designer

Designing brochures and social media posts using Canva

Kannada Koota Aug 2023 - April 2024
Part of Marketing and PR

EVENT PARTICIPATION

Electric Solar Vehicle Championship – 2025
Galgotias University, Noida

- Participated as part of Team Haya Off-Roading in a national-level solar vehicle competition.
- Contributed to technical design and cost optimisation, leading to multiple accolades:
 - Future Award – Recognised for innovation and forward-thinking design.
 - Best Business Plan – Awarded for strategic planning and cost-effective solutions.
 - Best Cost Report – Acknowledged for accurate, efficient budgeting and reporting.