

HAREN HIREMATH

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AERONAUTICAL ENGINEER

I am an Aeronautical Engineer driven by a passion for defense technology and national security. With a strong foundation in aerodynamics, propulsion, and simulation tools, I aim to contribute to innovations that strengthen India's defense capabilities. A disciplined and athletic individual, I value teamwork, resilience, and precision in every pursuit.

KEY COMPETENCIES

- DGCA CERTIFIED DRONE PILOT (SMALL CATEGORY)
 - CATIA V5
 - FUSION 360
 - XFLR5
 - OPEN FOAM
 - SOLIDWORKS
 - ANSYS – CFD,FEA
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PROFESSIONAL EXPERIENCE

TVA DYNAMICS – UAV SYSTEMS ENGINEER *NOVEMBER*
2025 – PRESENT

- Designed and conducted constructive analysis on hybrid vtol covering system architecture, configuration layout and mission requirements
- Performed aerodynamic, propulsion and performance analysis on hybrid vtol. • Assembled and tested various drones and drone systems
- Designed and tested a quadcopter with payload.

PRIME TOOLINGS – PROPULSION ENGINEER

July 2025 – October 2025

- Worked on CD Nozzle, Ramjet Artillery, Re-entry Vehicle, and RDE Engine projects involving experimental and numerical analysis.

- Performed CFD and structural simulations using ANSYS and 3D modeling in CATIA to optimize aerodynamic and thermal performance.
- Assisted in formulation and testing of solid propellant for propulsion experiments.

SKY AEROSPACE – PROJECT INTERN

Dec 2024 – Apr 2025

- Conducted numerical and experimental analysis of bio-inspired tubercle wing design using ANSYS Fluent and CATIA.
- Optimized lift-to-drag characteristics through CFD validation and wind tunnel comparison.
- Collaborated on biomimetic aerodynamic concepts for improved efficiency.

BANGALORE INTERNATIONAL AIRPORT LIMITED – INTERN

Jul 2023 – Aug 2023

- Assisted in safety audits and compliance with DGCA regulations.
- Monitored airside operations and conducted safety risk assessments.
- Gained exposure to Safety Management Systems (SMS), emergency procedures, and incident reporting.

AGNI AEROSPORTS – INTERN

Dec 2022 – Jan 2023

- Assisted in microlight aircraft maintenance, pre-flight inspections, and MRO activities.
- Supported engine servicing, component checks, and logbook documentation.
- Learned aviation maintenance practices and DGCA compliance standards.

EDUCATION & CERTIFICATIONS

- **B.Tech Aeronautical Engineering** – Hindustan Institute of Technology and Science, Chennai
- **Higher Secondary Education** – National Public School, Bengaluru

EXTRACURRICULAR ACTIVITIES

- Passionate cricket player
- Badminton player
- Stock market trader

