**Atharv Ravindra Naik**  
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**🔧 Skills & Technical Proficiencies**

**Engineering & Aerospace:**  
Aerodynamics, Computational Fluid Dynamics (CFD), Propulsion Systems, Avionics, Flight Control Systems, Systems Design, Mechanical Testing, Technical Drawing, Rapid Prototyping, Geometric Dimensioning & Tolerancing (GD&T).

**Software & Tools:**  
Autodesk Fusion 360, SolidWorks, ANSYS (FEA), MATLAB, NI LabView, MS Office, Mission Planner, ArduPilot.

**Programming/Systems:**  
PX4, SpeedyBee F405 Controller, Autonomous Control Integration.

**Languages:**  
Fluent in English, Hindi, Marathi | Conversational in Kannada.

**Interests:**  
Astrophysics, Astronomy, RC Aircraft, UAV Systems.

**🚀 Projects & Research**

**Fixed-Wing Aircraft Development** — *2023–24*

* Led avionics integration and structural design of fuselage and wing-spar.
* Achieved takeoff/landing under 10m, 1kg payload capacity, full autopilot.
* Integrated SpeedyBee F405 controller and optimized flight in 10 m/s winds.

**Unmanned Aerial System** — *2023*

* Designed electronics and mechanical joints for robust UAV structure.
* Implemented GPS lock with PX4, autonomous flight, and environmental sensors.
* Achieved 1 km flight altitude.

**Planetary Rover Prototype** — *2022*

* Developed terrain-adaptive suspension and sensor systems.
* Enabled 360° rotation and obstacle climbing (2x wheel diameter).

**🎓 Education**

**MSc Aerospace Engineering**  
*University of Manchester* — 2023–2024

**B.Tech Aerospace Engineering**  
*Dayananda Sagar University* — 2019–2023  
Graduated with First Class Distinction (CGPA: 8.54)

**🏆 Achievements**

* 🥈 2nd Prize – Final Year Project, Project Expo 2023
* 🥉 3rd Place – Autodesk Design Competition, DSU, 2020
* Participant – SAE India UAV Design Competition, 2020
* Attendee – 2-Day Glider Making Workshop, 2020

**👥 Leadership & Extracurriculars**

* **Team Lead – UAS Project:** Led 4-member team; delivered ahead of schedule
* **Member – Alatus Club:** Organized seminars & RC plane competition
* **Trip Coordinator – ISRO Visit:** GSLV Mk-3 launch visit (2022) for 60+ students
* **Physics Club Member:** Hosted star-gazing sessions (40+ attendees)
* **Industrial Visit Organizer:** Arranged HAL jet engine test run tour