# Atharv Ravindra Naik

📞 +91 82173 89032 | +44 73840 26107 📧 Atharvnk5@gmail.com

---

## 🔧 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