

Himanshu Sharma

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EDUCATION

• Bachelor of Engineering in Automation & Robotics

Expected July 2026

Modern Education Society College of Engineering

Pune, Maharashtra

- Relevant Coursework: Robotics IIT-K (NPTEL) & CS50P (Python)

EXPERIENCE

• UAV Engineer

Onsite

QuantumTechFPV

Oct - Dec, 2026

- Core member of the engineering and build team for end-to-end development and delivery of 10 hexacopter anti-jamming UAVs with fiber-optic primary control and RF (ELRS) failover (5 km range), delivered to an Indian Army battalion in Prayagraj.
- Performed early-stage assembly including soldering high-current bullet connectors, ESC phase wires, and 6S power distribution, ensuring low-resistance and reliable joints.
- Developed comprehensive technical and operator manuals for a hexacopter UAV platform with fiber-optic primary control and RF (ELRS) failover, documenting system architecture, ArduPilot baseline configuration, and integration workflows.
- Standardized pre-flight, failover, and acceptance testing procedures to improve link reliability, recovery safety, and field readiness.
- Designed battery lifecycle management and BMS tracking framework with audit-grade logging to reduce in-field power failures.

• Automation Intern

Onsite

Spark Minda

July - September, 2025

- Gained comprehensive exposure to Surface Mount Technology (SMT) production line, learning the complete PCB assembly process from laser marking and solder paste printing through automated optical inspection and quality control.

• Copywriter

Remote

cryptoprism.io

Jan - March, 2024

- Worked as a technical content copywriter for a DEX screener SaaS product targeting cryptocurrency users, improving user engagement and product adoption.

PROJECTS

• DeX: Manipulator | *CAD, 3D Printing, ESP32*

- Built a 5-DOF robotic manipulator with teleoperation using gesture control. Implemented wireless communication via ESP32 and flex sensors for hand tracking, exploring intuitive human-robot interaction.

• Robot_Mechanics | *Python, NumPy, Matplotlib*

- Developed an open-source Python library implementing core robotics concepts (transformations, kinematics, robot link modeling) from first principles. Designed modular components with unit tests and visualization for validation and clarity.

• Preview (PDF Viewer) | *PyQt5, MuPDF*

- Built a minimalistic, cross-platform PDF viewer inspired by Evince and Mac Preview using PyQt5 and MuPDF for fast rendering.

TECHNICAL SKILLS

Languages: Python, MATLAB

Tools & Technologies: Figma, LaTeX

EXTRACURRICULAR COURSES

- From Big Bang to Black Holes - Tokyo University (Coursera)
- CS50 Introduction to Python - Harvard University
- CS50 Introduction to Artificial Intelligence - Harvard University

LEADERSHIP & SOCIAL ENGAGEMENTS

- **Co-founder, Avinya Club:** Founded project-focused club for hackathons and technical development at MESWCOE Pune
- **Technical Head, ASME Student Chapter:** Led technical initiatives and projects as head of American Society of Mechanical Engineering Student Chapter at MESWCOE Pune
- **Event Organizer & Speaker:** Organized various technical events and served as keynote speaker, winning multiple competitions

INTERESTS & HOBBIES

Reading: Non-fiction, Evolution, Physics, Philosophy, Astronomy, Science Fiction

Music: Instrumental, Original Soundtracks

Writing: Technical blogs, Poetry, Personal journals