

## EDUCATION

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- **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

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- **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.
  - Contributed to propulsion, power, and avionics integration using a Pixhawk-based ArduPilot stack.
  - Supported bench testing, pre-flight checks, controlled flight tests, and acceptance testing (fiber-loss detection and RF takeover) following deployment-grade safety and reliability procedures
- **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

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- **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

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**Languages:** Python, MATLAB  
**Tools & Technologies:** Figma, LaTeX

## EXTRACURRICULAR COURSES

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- 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

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- **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

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

**Music:** Instrumental, Original Soundtracks

**Writing:** Technical blogs, Poetry, Personal journals