

YASH KANSAL

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SUMMARY

Experienced Robotics Trainer and Drone Instructor with strong hands-on expertise in UAV systems, embedded electronics, and competition-grade robotics. Proven ability to train school and college students through structured curricula, hands-on labs, and real-world projects. Extensive experience conducting workshops, mentoring competition teams, and deploying drones for practical applications. Adept at simplifying complex technical concepts and building strong learner engagement.

SKILLS

- **Drone Systems:** FPV Drones, Payload Drones (2–5 kg), Autonomous UAVs
- **Flight Controllers:** Pixhawk, Custom FC (Arduino)
- **Embedded Systems:** Arduino, ESP32, Raspberry pi
- **Programming:** C++, Python (Robotics & Embedded Focus)
- Sensors and systems: GPS, IMU, ESCs, power systems
- **Tools:** 3D Printing, Basic CAD, Electronics Prototyping
- **Currently Learning:** ROS1, Advanced UAV Autonomy

EXPERIENCE

QONEVO TECHNOLOGIES PRIVATE LIMITED GURUGRAM

STEM Teacher

08/2025 to Current

- Facilitated hands-on experiments to enhance student understanding of scientific concepts.
- Collaborated with colleagues to develop interdisciplinary projects and activities.
- Implemented technology tools to support interactive learning experiences.
- Developed and implemented lesson plans that incorporated technology-based activities to enhance student learning.
- Led after school clubs focused on robotics, engineering, computer programming, and other related topics.

AITMC VENTURES LTD GURUGRAM, India

Drone Test Pilot & Support Engineer

09/2024 to 07/2025

- Conducted **test flights and acceptance flights** to evaluate UAV stability, control response, and overall flight performance.
- Performed **flight controller calibration and tuning** (IMU, compass, ESC, radio) to ensure safe and reliable operations.
- Executed **flight log analysis** to diagnose issues related to vibrations, sensor errors, failsafe triggers, and power systems.
- Assembled, integrated, and **troubleshooted multirotor UAV systems**, including motors, ESCs, GPS, telemetry, and power modules.

GARUDA AEROSPACE Chennai, India

Drone Pilot

04/2024 to 07/2024

- Operated professional UAV platforms for industrial and commercial applications.
- Performed mission planning, pre-flight checks, troubleshooting, and maintenance.
- Gained exposure to aviation safety standards, operational discipline, and compliance.

EDUCATION AND TRAINING

BACHELOR OF SCIENCE: COMPUTER SCIENCE
MIET COLLEGE, MEERUT

07/2024

REMOTE PILOT CERTIFICATE (SMALL CATEGORY): DRONE PILOT
Dronachariya Drone Academy, Meerut

10/2023

TRAINER TRAINING (TTT) PROGRAM: DRONE INSTRUCTOR (INTERVIEW PENDING)
Flapone Aviation, New Delhi

KEY PROJECTS

Custom Flight Controller

- Designed a custom flight controller for educational and experimental use.
- Integrated IMU sensors, control logic, and stabilization concepts.

Payload and FPV drone platforms

- Built and demonstrated FPV drones (3", 5", 7", 10") for training and racing.
- Designed payload drones (2 kg, 4 kg, 5 kg class) focusing on stability and safety

Robotics competition systems

- Developed robots for RoboSoccer and RoboRace competitions.
- Part of a team that built a **15 kg combat-class robot** with consistent national-level success.

AWARDS & HONORS

15+ National-Level Robotics Competition Wins

3+ International Robotics Awards

1st Place at competitions hosted by IIT Bombay, IIT Delhi, IIT Ropar

Recognized for excellence in mentoring and technical guidance