Archit Gupta

Bachelor of Technology
Electronic and Communication
Dr. A.P.J. Abdul Kalam Technical University

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., ECE	Dr. A.P.J Abdul Kalam Technical University	**6.5/10.0**	June 2026
Senior Secondary	Sadhguru Inter college, Agra	**7.6/10.0**	April 2021

Experience

- **PCB Designing Intern** *May 2025 – June 2025*
  Avitron Pvt Ltd Delhi, India
  - Desingned multiple PCBs using KICAD during my internship for various projects like IoT, UAVs and Robotics.
- **Drone Engineer Intern** *Dec 2023 – Jan 2024*
  Aerosense Technologies Delhi, India
  - Designed and developed three types of industrial drones: agricultural, surveillance, and food delivery.
  - Gained hands-on experience in drone design, **AutoCAD**, **SolidWorks**, carbon fiber molding, piloting, calibration, tuning, and assembly.
- **Student Ambassador** *Oct 2023 – April 2025*
  Orbits/Idealab ABESEC Ghaziabad, India
  - Learned and applied skills in **3D printing**, **laser cutting**, **PCB manufacturing**, and wood routing.

Projects

- **40A Electronics Speed Controller for UAVs** *Dec 2024 - Feb 2025*
  SKill Used: KICAD
  - Designed and simulated the **PCB** of the ESC on **KICAD** and fabricated it on a fabrication machine.
- **Disaster Management Drone** *Feb 2024 - Nov 2024*
  Tools: OpenCV, Mission Planner, Solid Works, MATLAB, YOLO-V8.
  - Designed and developed a fully functional **UAV** capable of scanning disaster-affected areas, locating people with precision, and simultaneously delivering food and medical supplies.
- **Robotic Arm** *Feb 2024 - Nov 2024*
  Tools: Kicad, Fusion 360, Arduino IDE, Embedded C
  - Developed an **Arduino**-based pick and drop Robotic Arm.

Technical Skills

- **Programming Languages**: C++, Verilog, Embedded C
- **Softwares**: MATLAB, KICAD, Altium Designer, Eagl Fusion 360, Mission Planner
- **Communication Protocol**: RS232, RS485, CAN, Wi-Fi, UART, Modbus, I2C, SPI, Ethernet.
- **Tools**: Raspberry pi, ESP32, STM32, Ardunio, GPS, RF, GSM.

Extra curricular

- **President:** Chess club of ABESEC *March 2024 - June 2025*
- **PR and Outreach Head:** Google developers group, ABESEC. *March 2024 - June 2025*
- **Drone Workshop - Design and Piloting :** IdeaLab, ABESEC *Sep 2023*