Maurya Gajjar

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Objective

Mechanical engineering undergraduate (minor in Management) aspiring to a career in aerospace engineering, with experience in aircraft fuselage design, flight and air traffic control simulation, finite element analysis of airfoil flow, and Arduino-based electronics.

Education

B.Tech in Mechanical Engineering, Minor in Management, Sardar Patel College of Engineering

Expected graduation: 2028

Skills

- **Programming:** C++, Python, JavaScript, HTML, CSS, Wolfram Language (Mathematica), MATLAB
- **Design and Fabrication:** CATIA, SOLIDWORKS, Fusion 360, AutoCAD, Bambu Lab Slicer
- **Analysis and Simulation:** ANSYS CFD, ANSYS Static Structural, XFLR5, Finite element analysis, Flight and air traffic control simulation

Projects

RC Flight Sim (November 2026)

- Built an RC flight simulator where users can upload their own plane model and fly it in a virtual environment.

ATC Simulator in Mathematica (July 2026)

- Built an interactive air traffic control simulator in Wolfram Mathematica, published on Wolfram Community and selected as a Staff Pick.

Eyedropper Tool Using Photosensors (April 2026)

- Built an eyedropper tool using photosensors, with an Arduino Uno programmed in C++.

Gimbal Design Using PLA (November 2025)

- Designed a gimbal in AutoCAD and 3D printed it in PLA, sized to work in a car cup holder.

Laser Piano (December 2024)

- Built a physical laser piano on an Arduino Uno using photosensors, programmed in C++.

USB Switcher (Summer 2018)

- Built a USB switcher with one input and two outputs, letting one device be switched between two hosts with a single switch.

Programs and Competitions

Wolfram Summer Research Institute (July 2026)

- Researched finite element analysis of transient incompressible flow around 2-D airfoils; published on Wolfram Community and selected as a Staff Pick.

Society of Automotive Engineers (SAE) Drone Design Competition, Regular Class (February 2026)

- All India Rank 5 overall; All India Rank 1 in Technical Presentation and Design Excellence.
- Fuselage Design Engineer.

SAE Drone Design Competition, Micro Class (October 2026)

- All India Rank 2 overall.
- Fuselage Head.

Sports and Leadership

- **Vice Captain**, Thane District Football Association (April 2025)
- **TFA Super League Champions** (December 2023)
- **Vice Captain**, TFA Youth League Second Runner-Up (Summer 2022)