

# SANYAM SRIVASTAVA

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<b>Technical Skills</b>	<ul style="list-style-type: none"><li>● <b>Programming:</b> Python, JavaScript</li><li>● <b>Frameworks &amp; Tools:</b> [FastAPI, Flask, Python]-Advanced; [Node.js, Git, Data Analytics ]-Intermediate; [ARINC 429, AFDX, MIL STD 1552B] - Basic</li><li>● <b>Technologies:</b> Drone Programming, API Development, RESTful Services</li><li>● <b>Other:</b> System Design, Data Analysis, Problem Solving</li></ul>
<b>Experience</b>	<p><b>Intern, Central Scientific Instruments Organisation (CSIO), Chandigarh</b> [January 2024 - June 2024]</p> <ul style="list-style-type: none"><li>● Under supervision of <b>Dr. Shashi Poddar</b></li><li>● Designed and developed a hexacopter drone with a carbon fiber frame, achieving maximum endurance and payload capacity.</li><li>● Developed a FastAPI-based drone specification API</li></ul>
<b>Education</b>	<ul style="list-style-type: none"><li>● <b>Punjab Engineering College, B. Tech. Aerospace (7.03 CGPA)</b> [June 2026]</li><li>● <b>St. Joseph Sr. Sec. School (77% CBSE Board)</b> [June 2021]</li><li>● <b>St. Peter Inter College (80% ICSE Board)</b> [March 2019]</li></ul>
<b>Projects</b>	<ul style="list-style-type: none"><li>● <b>Hexacopter Drone Development</b> Built a hexacopter with carbon fiber, achieving maximum endurance and payload capacity—programmed Ardupilot controllers for stable autonomous flight in agriculture and surveillance applications.</li><li>● <b>Drone Specification API (FastAPI)</b> Developed a FastAPI-based RESTful API to calculate drone parameters like battery capacity and thrust.</li><li>● <b>Load analysis of the Wing using Python:</b> Built a basic code to measure and plot stress, strain on a wing.</li><li>● <b>ARINC 429 Data Encoder/Decoder in Python</b> Developed a Python-based ARINC 429 data encoder/decoder to simulate avionics data transmission, enhancing skills in aerospace communication protocols.</li></ul>
<b>Position of Responsibility</b>	<ul style="list-style-type: none"><li>● <b>Co-Leader of NASA HERC 2024   PEC- Chandigarh</b> 2023-2024</li><li>● <b>Executive Board Member</b> 2022-2025 EB Member of the Aerospace Technical Society, Robotics Society, and ASME of the College</li><li>● <b>Branch Incharge - Branch Incharge of Aerospace in Orientation 2023,2025</b></li></ul>
<b>Extra-Curricular</b>	<ul style="list-style-type: none"><li>● <b>4th position at World Technoxian RC Competition 2023</b></li><li>● <b>4th position at Cognizance–IIT Roorkee 2023</b></li><li>● Organising <b>Technical Workshops</b> for societies from my <b>First year</b></li></ul>