

Parth Dhingra

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Education

Freshman, George Mason University (Class of 2029)

- B.S in Mechanical Engineering
- Relevant Coursework: Calculus II, Computer Science 112 (Python), Physics I

Advanced High School Diploma, Chantilly High School (August 2021 – June 2025)

- GPA: 3.67
- Relevant coursework: AP Calculus BC, AP Physics C: Mechanics, Engineering Math (MATLAB), AP Computer Science A, Robotics Systems 1 & 2, STEM Engineering

Honors and Awards

- National Honor Society & National Technical Honor Society
- 3rd place in Chantilly High School Science Fair (2022)
- 4th place in Technology Student Association (TSA) Dragster Design Competition (2023)
- College Board AP Scholar (2023)

Experience

Head Mechanical Captain, Chantilly Robotics FRC 612 Team (2023 - 2025)

- Mentored and trained 30+ members in the operation of advanced machinery, metal machining, computer-aided design (CAD), and 3D printing techniques.
- Oversaw and aided in the design, prototyping, and fabrication phases of a 120-pound competition robot for the FIRST Robotics Competition.
- Collaborated with other team members, including mentors, leadership to keep our 100-person team organized and ensure our robot was completed within the strict six-week deadline.

Technology Student Association Member (2021 – 2024)

- Used CAD and prototyping skills to design and fabricate CO₂ dragsters, robots, and other engineered projects for TSA competitions, utilizing 3D printers as well as metal and woodworking tools to produce competition-ready products.

Owner, Sculpted Visions, Online Business (2023 - Present)

- Founded and currently manage a successful 3D printing online business specializing in functional 3D-printed products.
- Designed and produced high-quality 3D-printed products using additive manufacturing techniques.
- Achieved \$5000+ in revenue in the first year by selling products on Amazon, Etsy, and eBay.
- Managed all aspects of order fulfillment, including packaging, shipping, and tracking.

Virginia Space Coast Scholar, Virginia Space Grant Consortium (2022 - 2023)

- Researched topics related to NASA's orbital and suborbital missions that are launched from NASA Wallops Facility.
- Produced multiple APA technical reports under strict deadlines.

Counselor in Training, SciGenius (2023)

- Taught STEAM concepts using engaging and fun activities to classes of 15+ elementary schoolers.

Skills & Certifications

- **Technical Skills:** Computer-aided Design (CAD), MATLAB, Onshape, 3D Printing, Metal Machining, Woodworking, Laser Cutting, Arduino, Java, JavaScript, HTML, CSS

Certifications

- Onshape CAD Fundamentals (2022)
- CTECS Workplace Readiness Skills (2023)