

Yash Joshi

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Driven undergraduate engineering student with advanced coursework in mathematics and physics, a passion for solving problems and learning, and a good understanding of CAD software. Looking forward to work in collaborative teams working on innovative projects. Seeking to learn more about Process Optimization and Control Systems through an internship or a co-op opportunity at an esteemed company.

EDUCATION

PURDUE UNIVERSITY

B.S. in Engineering (Intended Major: Mechanical Engineering)

West Lafayette, IN

August 2025 - May 2028

- **Academic Standing:** Sophomore, **GPA:** 3.94/4.00
- **Relevant Coursework:** Linear Algebra, Ordinary Differential Equations, Geometric and Annotation Modeling, Introduction to Circuits, Basic Mechanics I, Vertically Integrated Projects (VIP)

NEUQUA VALLEY HIGH SCHOOL

High School Diploma, Magna Cum Laude

Naperville, IL

August 2021 - May 2025

- **Relevant Coursework:** Calculus 3 (Dual Credit), AP Calculus BC (5), AP Physics C: Mechanics (5), AP Physics C: Electricity & Magnetism (5), AP Chemistry (4)
- **Honors/Awards:** AP Scholar with Distinction, Spanish Seal of Biliteracy

EXPERIENCE

Purdue Lunabotics

August 2025 - Present

- Drivetrain sub-team member working on designing and manufacturing drivetrain system for NASA Lunabotics competition
- Utilizing CAD and 3D printing to optimize drivetrain performance and assembly processes

ASME (American Society of Mechanical Engineers)

August 2025 - Present

- **Executive Board:** Working with fellow board members to organize events and projects for a 300+ member organization
- **Racing Team:** Working to design and manufacture a YASA Axial Flux Motor for use in an electric go-kart

STEAM Dream Organization

August 2022 - May 2025

- Designed and 3D printed specialized STEM learning kits used for K-12 educational camps

TECHNICAL PROJECTS

- **Obstacle Detecting Miniature Car:** Developed an autonomous miniature car using a 3D printed chassis, Arduino, and Ultrasonic sensors for obstacle avoidance
- **Musical Transcription Program:** Developed a Python program using the numpy library to transcribe musical notes from audio input
- **Utility Design:** Designed and 3D printed various household utility items to solve everyday problems

TECHNICAL SKILLS

CAx Tools: Siemens NX, Solidworks, Autodesk Fusion, Ansys, Aras Innovator

Technical Proficiency: GD&T, FDM 3D Printing, Arduino

Programming Languages: Python, C/C++, Matlab