

# 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