

Nathan Joseph

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PROFILE

- Sophomore in Mechanical Engineering seeking an engineering research position Spring of 2025

EDUCATION

Purdue University, College of Engineering

B.S.E., Mechanical Engineering, GPA 3.98/4.0

West Lafayette, IN

September 2023 – May 2027

- Recipient of Purdue Sponsored National Merit Scholarship
- Design Lead for Engineering Projects in Community Services (EPICS) team

EXPERIENCE

Summer Undergraduate Research Fellowship (SURF) program

Research Assistant

Purdue University

May 2024 – July 2024

- Worked under Dr. Akanshu Sharma studying post-installed rebar applications in reinforced concrete
- Created finite element analysis models and helped conduct tensile tests on reinforced concrete behavior
- Wrote a technical paper and presented work at the Purdue Summer Undergraduate Research Symposium

Engineering Projects in Community Services (EPICS) Learning Community

Design Lead

Purdue University

September 2023 – Present

- Lead other members to design and construct hydroponics systems to combat food insecurity in Indianapolis
- Set project goals for the design team and lead members in achieving those goals
- Currently designing a flood and drain system set to be delivered in Fall 2024

Purdue Solar Racing (PSR) Team

Battery Team Member

Purdue University

January 2024 – October 2024

- Worked with a team to construct a solar-powered car to compete in competitions
- Redesigned a battery cell holder using Fusion 360 and manufactured it using a CNC gantry mill
- Team qualified for the 2024 American Solar Challenge and completed over 1200 miles

Fund for the Public Interest

Canvasser (paid)

Washington, DC

June 2023 – July 2023

- Obtained door to door donations for a clean energy campaign run by the nonprofit organization Environment Maryland
- Recognized multiple times for exceeding fundraising goals

LEADERSHIP ACTIVITIES, AFFILIATIONS, HONORS

- Eagle Scout, Scouts BSA (completed Eagle Scout Project, which entailed designing, building, and implementing recreational equipment for an elementary school. Required recruiting and leading a team of 10-15 volunteers)
- Active member of Purdue Concert Band
- Skilled in research, project management, customer service, written and oral communications
- Proficient in Python, MATLAB, Fusion 360, NX, FEMAP, Microsoft 365

LinkedIn:

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