

Arushi Bharadwaj

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Honors Mechanical Engineering Student seeking research opportunities

EDUCATION

Purdue University, West Lafayette, IN

August 2023-May 2027

Bachelor of Science in Mechanical Engineering | John Martinson Honors College

GPA: 3.6 / 4.0

Currently classified as a sophomore by credit hours; On track to be classified as a junior by May 2024

Del Norte High School, San Diego, CA

August 2019-June 2023

GPA: 4.3 / 4.0

National Merit Commended | AP Scholar with Distinction | National Honor Society | California ELC Recognized

RELEVANT COURSEWORK

Purdue University, West Lafayette, IN

Honors Engineering 16100

August 2023-December 2023

Milestones CAD/3D Printing Certificate

Fall 2023

University of California San Diego, La Jolla, CA

Introduction to Mechanical Engineering and Materials Science (A+)

Summer 2021

Problem-Solve like an Expert (A+)

Summer 2022

Palomar Community College, San Marcos, CA

Introduction to Electrical and Computer Engineering (A)

September 2020-April 2021

WORK EXPERIENCE

Cisco HS Internship/Shadow Program

Summer 2022

- Created a search engine website using Python and SQLite with a team of Cisco Engineers and Directors. Website allows employees to search for versions of software and bugs. Developed a VR classroom and presented at BridgeHacks Hackathon

Camp Invention Leadership Intern

Summer 2021

- Taught students STEM topics such as mechanics, aerodynamics, structures, electrical engineering, and circuit boards
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LEADERSHIP AND ACTIVITIES

American Society of Mechanical Engineers (ASME)

August 2023 - Present

Grand Prix Vehicle Performance Team Member and ASME Executive Event Coordinator

- Using MATLAB to process sensor data and test kart for Grand Prix race. Optimizing chassis for braking, torsion on shafts, and steering control using microcontrollers and C programming
- Managing ASME website and organizing ASME events to communicate with current members and expand outreach

Purdue Solar Racing

August 2023 - Present

- Designed a double wishbone suspension prototype using Autodesk Fusion 360. Performed finite element analysis on front and rear suspension. Fabricating suspension parts using computer-aided manufacturing

Purdue Society of Women Engineers (PSWE)

August 2023 - Present

Outreach Chair Executive Assistant

- Working on engineering projects with Team Tech. Mentoring young girls who are hoping to pursue engineering

FIRST Robotics

June 2016 - June 2023

Senior Build Team Leader

- Earned the Engineering Inspiration Award (2023) and Chairman's Award (2022). Qualified for the FRC World Championships.
- Led team members to implement vision processing software on the robot. Coordinated manufacturing of robot

Zero Degree Lab

February 2021 - Present

Founder and President

- Collaborating with Zero Degree Collaboratory at Stanford University to establish the first ZD Lab in the world
- Creating an app using Javascript and Python that inspires people to reduce their greenhouse gas footprint

Cal Poly Engineering Possibilities In College

Summer 2022

- Researched how to incorporate Machine Learning, Neural Networks and Artificial Intelligence into cancer detection software