



Sandeep Sawhney

Education

BSE Computer Engineering, University of Michigan, Ann Arbor

August 2025 — May 2029

Relevant Courses: MATH215 (Multivariable & Vector Calculus), MATH216 (Differential Equations), EECS203 (Discrete Mathematics), ENGR101 (Programming in Matlab & C++), ENGR100 (Technical Communications, Arduino & Circuitry Experience, mini-Capstone)

High School Diploma, Herricks High School, New York

September 2021 — June 2025

Honors & Distinction in Math & Science; Honors Science Research Track; Math Research

Research & Work Experience

High School Researcher, Nanoengineering at New York University

June 2023 — August 2025

- Pitched and conducted two independent projects at the Structural DNA Nanotechnology Laboratory under Dr. Yoel Ohayon and Dr. Simon Vecchioni
- Developed a novel gallium-mediated DNA crystal with potential applications in non-invasive cancer therapy
- Utilized Brookhaven National Laboratory Condensed Matter Physics department's X-ray source for data collection and analysis

Notable Clubs & Activities

Embedded Systems Engineer at Michigan Autonomous Aerial Vehicles (MAAV)

September 2025

Design of custom circuit boards for autonomous drones; Integration and assembly of precise electrical components for large aerial drones

Team Candidate at Leukemia Lymphoma Society (LLS) Student Visionaries

June 2024 — February 2025

Team leader for the 2025 Student Visionaries of the Year fundraising competition; Supported funding for blood cancer research; raised over \$30,000 and \$19,500 coming from personal fundraiser

President & Engineering Director at Herricks Rube Goldberg Machine Design Team

September 2023 — June 2025

Lead a team of over 60 members to design a working Rube Goldberg Machine; Competed in the 2024 & 2025 New York Delegation Rube Goldberg Machine Contest; Qualified for the National Contest in 2024

Biology & Chemistry Teaching Assistant at Herricks Science Department

September 2023 — June 2024

Assisted honors freshman & sophomore high school students in biology and chemistry classes under Mr. Kavitt @ Herricks High School during class and after school

Details

37 Cherrywood Drive
New Hyde Park, NY, 11040
United States of America
516-633-4615

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Links

[LinkedIn](#)

[HS Research Dissertation](#)

Skills

Python

MATLAB

Java

C++

KiCAD

Languages

English

Spanish

Notable Awards

- Regeneron Science Talent Search 2025 Finalist (top 40/~2,500)

- Regeneron ISEF Finalist 2025 (top HS Researchers in the World)

- LLS SVOY 2025 Candidate & Research Mission Pillar Award Winner (2025)

- 1st place in the Rube Goldberg Machine Contest & National Qualifier (2024)