



# Sandeep Sawhney

## 🎓 Education

### BSE Computer Engineering, University of Michigan, Ann Arbor

Aug 2025 — May 2029

Relevant Courses: MATH215 (Multivariable & Vector Calculus), EECS203 (Discrete Mathematics), EECS280 (Programming & Introductory Data Structures), ENGR101 (Introduction to Computers and Programming), ENGR100 (Robotic Mechanisms)

### High School Diploma, Herricks High School, New York

Sep 2021 — Jun 2025

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

## 🔬 Research & Work Experience

### High School Researcher, Nanoengineering at New York University

Jun 2023 — Aug 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)

Sep 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

Jun 2024 — Feb 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

Sep 2023 — Jun 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

Sep 2023 — Jun 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  
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## Links

[LinkedIn](#)

[HS Research Dissertation](#)

[Personal Website](#)

## 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)