



# Sandeep Sawhney

## 🎓 Education

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

Aug 2025 — May 2029

Fall 2025 Relevant Courses: Math 215, Engr 101; Winter 2026 Relevant Courses: EECS 203, EECS 280, Engr 100 (420)

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

Sept 2021 — Jun 2025

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

## 🔧 Research & Work Experience

### Undegraduate Researcher at University of Michigan

Jan 2026 — Present

- Assisting in the development & testing of a LLM to improve efficiency in the iteration, design, and prototyping of embedded systems.
- Working under Dr. Robert Dick and Mr. Haotian Qiao at the Michigan Integrated Circuits Laboratory (MICL)

### Independent Researcher at New York University (Dept. of Chem)

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

### PR Manager & Embedded Systems Engineer at Michigan Autonomous Aerial Vehicles (MAAV)

Sept 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

Sept 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

## Details

37 Cherrywood Drive  
New Hyde Park, NY 11040  
United States of America  
5166334615

[sandeep@sawhney.dev](mailto:sandeep@sawhney.dev)

## Links

[LinkedIn](#)

[Personal/Portfolio Website](#)

[HS Research Dissertation](#)

[Regeneron STS \(2025\)](#)

## Skills

Python

C++

Machine Learning (PyTorch)

Next.js

Version Control (Git)

## 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)