

Haokun Xu

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Education

Stuyvesant High School | New York, NY

Expected graduation June 2024

GPA: 93.79/100 UW

SAT: 1580/1600 (780 English, 800 Math)

Relevant coursework: AP Physics C (Mechanics, Electricity & Magnetism), AP Calculus BC, AP Japanese, AP Biology, AP Computer Science, AP US History, Systems Level Programming, Computer Graphics

Experience

Stuyvesant Robotics | New York, NY

June 2022 – Present

President

- Operated machinery, including but not limited to: CNC machines, lathes, and laser cutters.
- Guided multiple groups of 4-5 high school students through engineering principles, CAD software, and assembling electronics.
- Organized school and community events (MoMath, Battery Park City, Winter Garden) with 200+ attendees to promote STEM and leadership for underprivileged communities.
- Planned an interstate multi-day trip of over 40 high school students and 10 adult chaperones, including place of stay, dining establishments, and mode of transportation.
- Team awards won under my leadership: *Innovate Award sponsored by RTX, Motivate Award, Think Award, Design Award, Inspire Award (2nd and 3rd place)*

NYC FIRST STEM Center @ Cornell Tech | New York, NY

July 2023 – August 2023

Intern

- Collaborated with mentors and peers to develop introductory STEM lessons for high school students.
- Taught high school and university students how to operate a 3D printer and laser cutter, including appropriate safety procedures.
- Trained 20 public and private high school teachers to be effective mentors of FIRST® Tech Challenge robotics teams through week-long professional development sessions.

Honors & Awards

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| • AP Scholar | May 2023 |
| • FIRST® Dean's List Semi-Finalist | March 2023 |
| • Japanese National Honor Society | May 2022 |

Skills

Software

- Microsoft Office and Google Suite
- Adobe Photoshop, Premiere Pro, After Effects, Illustrator, Canva
- Python, Java, C, C++, HTML, CSS, JavaScript, Racket, NetLogo, Git/GitHub
 - Visual Studio Code, IntelliJ IDEs (including Android Studio), Processing IDE
- Autodesk Fusion 360, Onshape, Cura, PrusaSlicer, PreForm, Blender, Markforged Eiger

Tools

- Digital Fabrication (3D Printer, Laser Cutter, CNC Router, Waterjet Cutter)
- Power Tools (Drill, Dremel, Jigsaw, Belt Sander), Soldering Iron, Heat Gun

Languages

- English (native proficiency)
- Cantonese (limited working proficiency)
- Japanese (limited working proficiency)