

Vivian Chen

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EDUCATION AND HONORS

Boston University

Bachelor of Science in Mechanical Engineering

GPA: 3.27/4.0

Boston, MA

Expected May 2028

PROJECTS

Hybrid Introduction Project - BU Rocket Propulsion Club

Fall 2024

- Designed and soldered a circuit involving N-Channel MOSFETs to fire an EMatch and open a solenoid.
- Coded on Arduino Nano to read real-time data from a load-cell.
- Designed presentations for conceptual, preliminary, and critical design review.

LEADERSHIP EXPERIENCE

2601 FIRST Robotics

Queens, NY

Vice President

September 2023 - June 2024

- Managed a team of 180 students and oversaw an 11-person executive board.
- Assisted in Grant and Sponsorship writing.

Head of Communications

September 2022 - June 2023

- Managed a team of 120 students, and bridged communication between team members and coaches.
- Lead a workshop on Student Leadership Effective Communication in Hawk Talks.

Scout Lead

September 2021 - June 2024

- Managed a subteam of 40 students, led match strategy at competitions, and organized scouting rotations.
- Created a presentation on qualitative and quantitative data analysis using the program AirTables in Hawk Talks.
- Communicated with over 100+ robotics teams on effective match strategy during competition.

Event Coordinator

September 2021 - June 2024

- **Open Field Weekend:** Led 15 students team to assemble a wood replica FRC game field for robot mechanism testing.
- **Project SHIFT:** Oversaw a subteam of 45 student teachers and developed a 12-week STEM Program for students in K-8. Taught 150+ students 3D modeling through TinkerCAD and block coding on Scratch. Worked with students on programming a small robot to move in cardinal directions in block coding.
- **Hawk Talks:** Organized an annual open forum/workshop and collaborated with 8 presenters from 5 other FRC teams for 179 attendees to teach design, operations, and engineering topics.
- **STEM Workshop:** Oversaw a team of 20 student teachers and taught 200+ kids in K-7 biology, physics, and chemistry lessons through hands-on activities followed by a show of 2023 Robot demonstrating intake and shooter.
- **Fundraising:** Organized volunteer schedules for 150 members and developed effective fundraising techniques to raise over \$19K.

OTHER EXPERIENCE

CAPA (Chinese American Parents Organization) @ PS244

Queens, NY

Intern Office Staff: Youth Coordinator Staff

August 2022-Present

- Oversaw 45 teacher assistants, and coordinated meetings, weekly team bonding events, and social outings.
- Created Summer Camp Yearbook and Weekly Newsletters informing parents on classroom activities, student academic progress, and events.
- Assisted with classroom management and teaching 40 students on basic math, science, reading, and writing.

BU IT

Boston, MA

Learning & Event Technology Services (LETS)

September 2024-Present

- Assist the Boston University facility with audio/visual equipment in the University Registrar classrooms.

ADDITIONAL INFORMATION

Programs: Adobe Illustrator | Adobe Photoshop | Adobe Premiere | Airtables | Cricut Design Space | Python | MatLAB

Manufacturing: 3D Printing | Cricut | Drill Press | Hand Tools | Laser Cutting | Lathe | Mill | Soldering

Training: Haas Basic Mill | Mandated Reporter | MATLAB Onramp

Organizations: FIRST Robotics | Queens Fencing Club | USA Fencing | USA Ultimate

Honors & Awards: Archon (2021-2023) | Arista (2021-2024) | FIRST Dean's List Semi-Finalist Award (2023) | NYSSHS Honor Societies (2024)

Language: English | Mandarin