

Vivian Chen

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EDUCATION

Boston University | Kilachand Honors College, Boston, MA

Expected May 2028

B.S. in Mechanical Engineering (Concentration in Robotics)

GPA: 3.1/4.0

Coursework: Fluid Dynamics, Circuits, Engineering Mechanics

WORK EXPERIENCE

3VIMA

Sydney, NSW

Mechanical Engineering Intern

Feb 2026 - June 2026

- Analyzed architectural blueprints and structural diagrams to design and scale down structures for modeling.
- Showcased models at the Sydney Build Expo to demonstrate the applications of additive manufacturing in construction of homes.

PROJECTS

Deskinator

Fall 2025

Introduction to Engineering Design Class

- Designed, prototyped, and constructed a fully autonomous robot vacuum by integrating CAD modeling, custom-machined components, and laser-cut structural elements to achieve functional system performance.
- Programmed the robot's navigation system, motor control system, and real-time sensor feedback loop in Arduino (C/C++), enabling reliable obstacle avoidance, adaptive path correction, and consistent autonomous movement.

Temperature Sensor

Spring 2025

Hands-on Engineering Class

- Designed and CAD-modeled a temperature-sensing device in Onshape to measure ambient room temperature via sensor input and display real-time readings on an LCD screen, ensuring proper component integration.
- Programmed an Arduino microcontroller in C/C++ to process real-time sensor data to trigger a piezoelectric buzzer and blinking LED when readings exceeded a preset range as indicators for real-time alert notification.

Hybrid Introduction Project

Fall 2024

BU Rocket Propulsion Club

- Designed and soldered a compact circuit involving N-Channel MOSFETs to fire an EMatch and programmed an Arduino Nano to control the opening and closing of a solenoid and capture real-time data from a load cell
- Created and delivered technical presentations for active feedback on conceptual, preliminary, and critical design reviews to communicate design rationale and iterative improvements throughout the development process.

OTHER EXPERIENCE

Theta Tau

Boston, MA

Community Service Chair

Aug 2025 - Dec 2025

- Led service initiatives focused on environmental conservation, like park cleanups to improve local green spaces.
- Planned and coordinated a blood drive with the Red Cross to promote public health and engage local participants.

Chinese American Parents Organization

New York City, NY

Event + Youth Manager

Aug 2022 - Aug 2026

- Supervised a team of 45 teacher assistants, coordinating staff meetings, team-building activities, and daily camp operations; developed comprehensive master schedules to ensure smooth, efficient, and safe program execution.
- Created weekly newsletters and a summer yearbook to engage parents and highlight student achievements; supported instruction and behavior management for students, contributing to a productive learning environment

ADDITIONAL INFORMATION

Software: SOLIDWORKS CAD and Simulation | Arduino | Python | MATLAB | Canva | Cricut Design Space | G-Suite

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

Leadership: Theta Tau | *FIRST* Robotics Competition | USA Fencing | USA Ultimate