

HIROYUKI SAKUMA

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EDUCATION

Georgia Institute of Technology

Honors BS Mechanical Engineering GPA: IP

Atlanta, GA

August 2025 - Expected December 2028

John Jay High School

Advanced Graduation Diploma GPA: 4.0

Hopewell Junction, NY

September 2021 - July 2025

Japanese Weekend School of New York

GPA: 3.9

Westchester, NY

April 2012 - March 2025

EXPERIENCE

John Jay High School FIRST Tech Challenge (FTC) Robotics Team

Vice President, CAD Leader

Hopewell Junction, NY

September 2021 - July 2025

- Designed competition robot in OnShape CAD
- Responsible for all build, code, and CAD of the competition robot
- Started hosting annual CAD and 3D printing workshops for local students

Keio University | Space Robotics Group Research Lab

Research Intern

Kanagawa, Japan

June 2024 - August 2024

- Designed and fabricated the apparatus for a biomedical study
- Presented project timeline to 30+ graduate students

The Environmental Defense Initiative NPO

Chief Technology Officer

Online

May 2024 - Present

- Manages and responsible for all organization IT
- Improved Search Engine Optimization to reach thousands of unique users worldwide
- Created a custom blog uploader, member-exclusive page, and petition tracker

Japanese Weekend School of New York

Treasurer

Westchester, NY

April 2023 - March 2025

- Raised over \$6,000 from fundraising events in a year
- Managed funds for all high school and middle school classes
- Planned fundraisers and events to reach over 600 students and parents

SKILLS

Language:	Japanese (fluent), English (fluent), Spanish (basic)
Design and Fabrication:	OnShape, Fusion360, Solidworks, 3D-Printing
Programming:	Java, TypeScript, HTML, CSS, JavaScript
Animation Rendering:	Blender

PUBLICATIONS

Sakuma, Hiroyuki. "The Future of Train Systems: High-Speed-Rail or Maglev?" Roaring Cubs Collective Scientific Review Fall 2023, Columbia University, 28 Dec. 2023, www.roaringcubscollective.org/_files/ugd/c25211_0c33d0699f9443edb7e79fd1fc5c62fc.pdf

PROJECTS

Hero Utilities | Design and Researcher | hirosakuma.com/cadutils

June 2024 - August 2024

A personal project that offers open source CAD parts on OnShape to create complex parts with only a few inputs. Currently features over 250+ document links.

AWARDS

- FTC Robotics World Championships; Woodie Flower Award April 2025
- FTC New York; Advanced to World Championship, 1st Place Think Award March 2025
- Lockheed Martin CyberQuest (Stratford, CT) 2nd Place March 2025
- NYSSMA Majors High School String Orchestra A 1st Place February 2025
- JREP Certificate of Completion August 2024
- John Jay High Honor Roll 2021-2025

SCHOLARSHIPS

- Hudson Valley Credit Union Scholarship August 2025 - May 2026
- New York Credit Union Association Scholarship August 2025 - May 2026