

Carlos Lopez

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EDUCATION

Massachusetts Institute of Technology | Cambridge, MA Sep 2024 - Present
Course 2A6 | Mechanical Engineering with Computer Science

Montgomery Blair High School | Silver Spring, MD Aug 2020 - May 2024
SAT: 1520 (MATH 790)
Intro to Coding Club co-founder: teaching and tutoring students computer and coding skills | Rock Climbing Club leadership | 1100 hours of volunteer service by graduation

EXPERIENCE

Medical Robot Devices | Brigham and Women's Hospital Boston, MA
Medical Device Intern: April 2025 - Present

- Developing electrical and mechanical systems for auto-injection of medicine into veins
- Rapid testing and iteration of devices to meet project deadlines

MAD Shop Monitor | MIT Cambridge, MA
Makerspace Shop Monitor: Aug 2025 - Present

- Manages and maintains common workshop machines and equipment
- Helps shop users with projects and machine use

Interphase Project Mentor | MIT Cambridge, MA
Project and Shop Mentor: Jul 2025 - Aug 2025

- Mentored and led incoming freshmen long term projects with mechanical and electrical elements
- Maintained workshop and trained incoming freshman on various machines

MIT Combat Robotics Club | MIT Cambridge, MA
Club Onboarding Lead + Competitor: Sep 2024 - Present

- In charge of new member onboarding and teaching the fundamentals of combat robot design
- Has built a total of 5 combat robots amongst the 11lb, 3lb, and 12lb weight classes
- Has competed at the NHRL competition between a total of 5 times between two robots

REU CAAR | University of Maryland College Park, MD
Computational Geometry Internship: Jun 2023 - May 2024

- Explored academic papers and software for support in algorithm development
- Developed algorithm for Delaunay triangulations and in-circle in the Hilbert geometry
- Wrote a paper published at SWAT 2024, *Delaunay Triangulations in the Hilbert Metric*

SKILLS & INTERESTS

Machining/Fabricating: Mill, Lathe, Laser Cutting, FDM/SLA 3D Printing, MIG/TIG Welding, Soldering
Software/Coding: Microsoft, Java, C#, HTML/CSS/C++, Python, Inventor, Onshape, Fusion
Languages: Native English and Spanish, Maryland Seal of Biliteracy in Spanish, limited Japanese
Hobbies and Interests: Rock Climbing | Game Development | Poker | Chess