

## Fernando José Oliver Mediavilla

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Portfolio: <https://fern-0416.github.io/Portfolio/>

### Education

**Massachusetts Institute of Technology**, Cambridge, MA

May 2027

GPA: 5.0/5.0

- Bachelor of Science in Computer Science and Electrical Engineering & Philosophy
- Undergraduate Teaching Assistant for 8.01, Physics I of Fall 2024

**Colegio San Ignacio de Loyola**, San Juan, PR

May 2023

- Unweighted GPA: 4.0, SAT: 1500; Top of class in Mathematics and English

### Experience

**Reality Hack Org**, Cambridge, MA

Jan 2024-Present

**Board Member and Lead Logistics Organizer**

- Carry out the world's largest XR hackathon with over 600 hackers in attendance
- Coordinated venue, over 50k in sponsorships, and activities
- Prepared repositories and distributed equipment for the hackers

**Cicata, Instituto Politécnico Nacional**, Querétaro, México

June-July 2024

**Researcher**

- Designed functional prototype for research project in bladeless wind turbines
- Used CAD software to create over 20 different pieces satisfying my project and the lab's needs.
- Tested the prototype in the field multiple times in simulated streams of water and air.

**MAS Corporation**, San Juan, PR

June – Aug 2023

**Part-time Worker**

- Filed, organized, and archived thousands of forms and invoices
- Created and optimized spreadsheets within the accounting department
- Praised for availability, productivity, and collaboration in a dynamic, fast-paced office environment

**MIT Make**, Cambridge, MA

Aug 2024 - Present

**Mentor**

- Supervise two of the most important makerspaces at MIT (Metropolis and the Deep)
- Calibrate, fix, and perform maintenance on heavy machinery (3D printers, metal working, wood working, etc.)
- Orient new members of the community and teach how to use machines/carry out projects

### Activities & Extracurriculars

**VR/AR Club at MIT**, Treasurer, Junior XR Developer

Aug 2023 – Present

- Create independent projects in Virtual Reality that vary from game design to hardware
- Budget and manage over 30k in funding
- Learn about XR development through a small course made for the community

**Snapdragon Spaces**, Spaces Cadet

Apr 2024 - Present

- Work on projects involving Augmented Reality devices with selected students from Stanford, MIT, and USC

**Association of Puerto Ricans at MIT**, Member

Aug 2023 - Present

- Organize and host events to celebrate Puerto Rican culture and spirit, often alongside other universities.

**Cross-country/Track & Field**, Captain and Athlete

Sept 2017 – May 2023

- Running competitively, having won 2<sup>nd</sup> place in the regional 3-mile race (2021) and 4<sup>th</sup> in the regional 1.5 km race
- Led the running team, recruited new members, and organized practices

**Mathematics Olympics of Puerto Rico**, Competitor

Mar 2015 – Apr 2023

- Competed annually in a series of regional competitions and classes organized by the University of Mayagüez
- Qualified for the 63<sup>rd</sup> International Mathematical Olympiad and networked with students from around the world
- Honorable mention at XXIII Central American Math Olympics and XXXVI Iberoamerican Math Olympics

### Skills & Interests

**Languages:** Spanish and English (Bilingual), Russian (Beginner), Python, Java, Minispec, Assembly, and C++

**Makerskills:** Woodworking, Welding, 3D Printing, Waterjet, Lathe, Laser Cutting and Sewing

**Software:** CAD Design, Latex, Unity, Godot, Github

**Hobbies:** Video games, Archery, Running, Reading, Watching films, Latin Dance, Making personal projects