

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 Physics I of Fall 2024

Experience

Reality Hack Org, Cambridge, MA - **Board Member and Head of Logistics**

Jan 2024-Present

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

MAS Corporation, San Juan, PR - **Part-time Worker**

June – Aug 2023

- 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 - **Mentor**

Aug 2024 - Present

- 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

Research

Cicata, Instituto Politécnico Nacional, Querétaro, México

June-July 2024

- 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.

Reflective Make-AR In-Action, MIT

- Collaborated on an augmented reality program that teaches users how to use tools for making projects.
- Designed and assembled PCB to detect information on the user and the tool
- Incorporated speech-to-text and text-to-speech functionality.

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.

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 63rd 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