Fernando José Oliver Mediavilla

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

Education

Massachusetts Institute of Technology, Cambridge, MA   **May 2027**
- Bachelor of Science in Computer Science and Electrical Engineering & Philosophy   **GPA: 5.0**
- 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

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 2nd place in the regional 3-mile race (2021) and 4th in the regional 1.5 km race
- Led the running team, recruited new members, and organized practices

VEX Robotics, Lead Programmer and Engineer   **Aug 2022 – May 2023**
- Learned about C++, VEX V5, pneumatics, & mechanics to built a robot for the VEX Robotics competition
- Won sub-champions for the VEX 2022 state Competitions

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, Risk V Assembly, and C++
Makerskills: Woodworking (Bandsaw, Miters Saw…), 3D Printing, Laser Cutting and Sewing
Software: CAD Design, Latex, Unity, Godot
Hobbies: Video games, Archery, Running, Reading, Watching films, Latin Dance, Making personal projects