

DESMOND MEHTA

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EDUCATION

Yale University B.S.+M.S., Computer Science	New Haven, CT Sep 2024 — May 2028
• Relevant coursework: Discrete Math, Systems Programming, Compilers, VLSI, Intensive Physics	
Cold Spring Harbor High School 4.22 GPA, 1580 SAT	Cold Spring Harbor, NY Sep 2020 — Jun 2024
• Relevant coursework: Linear Algebra, Multivariable Calculus, Physics C, 12× AP 5's	
Columbia University Science Honors Program Weekend coursework in Relativity, Quantum Computing, and Materials Science	New York, NY Sep 2022 — May 2024

WORK

Head of Platform at <u>Sea12</u> Led full-stack development and deployment of our <u>AI agent orchestration platform</u>	New York, NY Apr 2025 — Aug 2025
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RESEARCH

<u>Asynchronous VLSI & Architecture Group</u> Designing silicon modules for inter-chip communication	Yale University Jan 2025 — Present
<u>Bioelectronics Lab</u> Improved radio transmission protocol for rodent-implanted neural recording device	Feinstein Institutes for Medical Research Jun 2024 — Aug 2024
<u>Neural Acoustic Processing Lab</u> MATLAB signal processing methods for minimally-invasive neural implants	Columbia Engineering Jun 2023 — Aug 2023
<u>Human Brain Mapping Lab</u> Python signal processing to study the role of Sharp Wave-Ripples in memory	Feinstein Institutes for Medical Research Jun 2022 — Mar 2023

ACTIVITIES

Yale Undergraduate Aerospace Association CubeSat Architecture and Security Board Lead and Project Liquid Team Member	New Haven, CT Sep 2024 — Present
• Leading migration of satellite codebase from C to C++ and planning of higher-level design paradigms	
• Designing new STM32-based motherboard for liquid-fuel rocket; rewriting codebase in Rust	
FIRST Robotics Competition Build Captain, CAD Captain, Field Technician	Cold Spring Harbor, NY Jan 2021 — Apr 2024
• Qualified for World Championship in 2023 and 2024	
• Developed autonomous targeting system in addition to leading design in 2024	
<u>Lemelson-MIT InvenTeam</u> Team Founder and Technical Lead	Cambridge, Massachusetts May 2023 — Jun 2024
• Designed and fabricated a cost-effective, environmentally-friendly, and scalable solution for tick mitigation	
• 1 of 8 teams selected nationally for \$7,500 grant, only team to win Microsoft Make What's Next grant	

PROJECTS

<u>Watch</u>
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SKILLS

Professional Skills: Sales Expertise, Leadership, Conflict Resolution, Strategic Planning, Negotiation
Personal Traits: Hardworking, Alpha Male, Jackhammer, Merciless, Insatiable
Specialized Talents: Karate (Black Belt), Jujitsu, Werewolf Hunting, Table Making