

Adam Vaughan

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Education

B.Sc. Mechanical Engineering | *Technion Institute of Technology, Haifa, Israel*

Expected Graduation: 2026

- Accumulative GPA: 88.9 (Dean's List)
 - Notable Courses: Solid Mechanics (100), Fluid Mechanics (93), Thermodynamics (93)
 - Project: Designed a clamp using SolidWorks; fabricated using CNC milling and 3D printing
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Experience

Product Management and Prototyping Intern

meshIQ

Oct 2025 - Jan 2026

- Conducted competitive and technical research on emerging AI products (agentic workflows, natural-language interfaces, AI copilots) and synthesized findings into a proposed AI product roadmap
- Collaborated directly with the Head of Product Development to translate research insights into concrete product concepts, defining use cases, system boundaries, and integration points that informed prioritization of future AI-driven features.
- Built a Python-based proof of concept Model Context Protocol (MCP) server that leverages AI agents, enabling navigation of the platform through natural language prompts

Freelance Developer – Client Matching Algorithm

Independent Contract

Feb 2025 – Present

- Collaborated with a therapy startup to design and implement a logic-based algorithm that pairs clients with therapists based on form responses and preferences.
- Developed backend logic in JavaScript for an online form to validate input, handle dynamic branching, and prioritize compatibility.

- Advised on user experience improvements and worked closely with the project lead to iterate based on testing and feedback.

Co-Founder

Prometheus Technologies

November 2024 – March 2025

- Co-founded a student-run engineering consulting group focused on solving real-world design and prototyping challenges.
- Partnered with early-stage companies to provide technical design and engineering support
- Collaborated with fellow students to gain hands-on experience; ultimately dissolved the group to pursue more effective, structured learning paths.

Lab Assistant

Solav Biomechanical Interfaces Group

May 2024 – Jul 2024

- Developed Python scripts to automate data processing and quality checks for large biomechanical datasets.
- Created MATLAB scripts to consolidate and analyze data, enhancing workflow efficiency.

Propulsion Team Member

Technion Rocketry Club

Oct 2024 – Feb 2025

- Collaborated on the design of actuators using SolidWorks and 3D printing for rapid prototyping and testing.
- Created engineering drawings in SolidWorks for vendor-manufactured precision parts.

VP of Mechanical Design

Fremont High Robotics Team

May 2019 – May 2021

- Led the mechanical design team in building a robot with four integrated subsystems.
- Coordinated with other VPs and the President on team recruitment, training, and design planning.
- Developed a CAD training program for new members, focused on foundational mechanical design skills.

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Skills

SolidWorks
Python
Manufacturing Processes