

# Adam Vaughan

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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**