

## **ADAM VAUGHAN**

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## **EDUCATION AND QUALIFICATIONS**

### **B.Sc. Mechanical Engineering**

*Technion Institute of Technology, Haifa, Israel*

Expected Graduation: 2026

- Grade Average: 89 / 100 (Dean's List)
  - Notable Coursework: Dynamics of Vibrations (100), Fluid Mechanics (93), Control Systems (100), Mechanical Design (98)
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## **WORK EXPERIENCE**

### **AI Development Intern | *meshIQ***

Oct 2025 – Jan 2026

Designed and implemented a Python-based MCP enabling LLM-powered natural-language interaction with the meshIQ platform; collaborated with product management to define the roadmap for this and future AI products.

### **Freelance Developer | *Independent Contract***

Feb 2025 – Jun 2025

Collaborated with a therapist-matching startup to develop an algorithm that pairs clients with therapists based on form responses. Built backend logic in JavaScript for form validation, conditional branching, and compatibility scoring.

### **Co-Founder | *Prometheus Technologies***

Nov 2024 – Mar 2025

Co-founded a student-led consulting group that partnered with early-stage companies to provide engineering guidance. Gained hands-on experience across several projects before pivoting to more structured learning formats.

### **Lab Assistant | *Solav Biomechanical Interfaces Group***

May 2024 – Jul 2024

Developed Python code to automate biomechanical data processing and created MATLAB tools for data analysis and streamlined analysis workflows.

### **Propulsion Team Member | *Technion Rocketry Club***

Oct 2024 – Feb 2025

Designed a rocket release actuator using SolidWorks and rapid prototyping with 3D printing; produced technical drawings for vendor fabrication.

### **VP of Mechanical Design | *Fremont High Robotics Team***

May 2019 – May 2021

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

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## **SKILLS**

**CAD:** SolidWorks

**Programming:** Python, MATLAB

**Manufacturing & Fabrication:** CNC Machining, 3D Printing, Manufacturing Processes