# ADAM VAUGHAN

+1 408-663-7867 | [adamvaughan2021@gmail.com](mailto:adamvaughan2021@gmail.com) | [Portfolio](Portfolio) | [Linkedin](Linkedin)

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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