

Yashvi Shah

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Portfolio: yashvishah.com

Experience:

TMAV - Power Systems Engineer

Feb 2026 to Present

- Design and integrate electrical power systems for a drone, focusing on battery sizing and power distribution architecture
- Test and validate system performance to ensure reliability under operational conditions
- Work with mechanical and software teams to integrate power requirements across the aircraft

MARS Rocketry - Lead

Jan 2026 to Present

- Mentor competitors in CAD (OnShape) and OpenRocket for rocket design and simulation
- Lead tutorials and onboarding sessions for new members
- Manage inventory and logistics of rocket components to support team operations

Town of Caledon - Lifeguard and Swim Instructor

Sept 2023 - Sept 2025

- Monitored pool and deck to ensure safety of 100+ patrons per shift
- Enforced safety and cleanliness standards in compliance with municipal regulations
- Taught swimming skills to people of all ages and levels

Projects:

High Powered Rocket - HPR Level 1 Certification

Aug 2026

- Designed and manufactured a high-powered rocket from scratch with a Cesaroni 164H90-12A motor
- Modelled all the rocket components on Onshape ensuring proper tolerance for all the parts
- Successfully launched and recovered the rocket, earned the High-Power Rocketry Level 1 Certification

Can-Sized Satellite - CanSat

Feb 2026 to May 2026

- Designed wiring diagrams and electrical layouts for satellite systems
- Modeled satellite structure using CAD with optimized component mounting
- Collaborated with a multidisciplinary team on testing and launch preparation

Remote Controlled Aircraft - TMAD Competition

Jan 2026 to Aug 2026

- Designed and optimized a remote-controlled aircraft for competition
- Flight tested the aircraft and made design adjustments based on the observed performance
- Coordinated project timeline and team collaboration

Model Rocket - MARS Competition

Sept 2025 to Dec 2025

- Performed flight simulations using OpenRocket
- Designed rocket components using CAD (OnShape)
- Manufactured and successfully launched the rocket with an apogee of 656 ft

Education:

Toronto Metropolitan University

Sept 2025 to Present

Bachelor of Engineering (Honours) in Aerospace Engineering (BEng)

- Deans list fall 2025 (3.7 GPA)

Skills:

Technical: Microsoft 365, **CAD** (Onshape, CATIA, AutoCAD, Fusion, Solidworks), **Programming** (MATLAB, Python, Java, C), OpenRocket, Excel, **Workshop Tools** (Soldering, Hand Tools, Power Tools).

Soft: Project Management, Collaboration, Problem Solving, Customer Service, Leadership.

Certifications:

- **High-Power Rocketry (HPR) Level 1 Certification**