

Trevor Crouse
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EDUCATION

Cornell University, Sibley School of Mechanical and Aerospace Engineering **Ithaca, New York**
Bachelor of Science in Mechanical Engineering *Expected Graduation May 2028*
• **Relevant Coursework:** Statics and Mechanics of Solids, Thermodynamics, Differential Equations, Electromagnetism

St. John Catholic High School **Perth, Ontario**
Top of class, graduated with 4-year honors *Diploma Received June 2024*
• **Awards:** 1 of 1,300 National Schulich Leadership STEM Scholarship, 98% average across university-prep courses

EXTRACURRICULAR EXPERIENCE

Design, Build, Fly Project Team **Ithaca, New York**
Aerodynamics and Controls Subteam Member *November 2024 – Present*
• Collaborated on aerodynamic analysis and optimization for a high-performance RC aircraft, utilizing tools such as CAD
• Worked with cross-functional teams to design and integrate subsystems, ensuring compliance with all mission constraints
• Participated in technical documentation and presentation preparation for the annual AIAA Design, Build, Fly competition

Zeta Psi Fraternity **Ithaca, New York**
Elections Board Position for Social Event Planning and Management *April 2025 – Present*
• Managed and allocated a \$30,000 budget for events, including catering, venue selection, and vendor coordination
• Developed and implemented risk management strategies, including transportation and safety protocols for over 80 people
• Coordinated logistics with internal committees and external partners to ensure smooth execution of large-scale events

WORK EXPERIENCE

Perth & District Summer Day Camp **Perth, Ontario**
Summer Camp Coordinator *May 2025 – August 2025*
• Designed and implemented a summer of superhero-themed day camp programming, supervising children ages 8–12
• Coordinated logistics, \$2,000 budgets, theme-based activities, and water safety protocols for all staff and children
• Taught age-appropriate lifesaving skills, including water safety, rescues, and basic first aid with CPR and AED training

Lifesaving Society **Perth, Ontario**
Advanced Aquatic Instructor and Examiner *November 2023 – August 2024; May 2025– August 2025*
• Provided lifeguard and first aid certification courses to participants of all ages, focusing on safety and aquatic techniques
• Examined and assessed courses delivered by other instructors, ensuring alignment with lifesaving society standards
• Conducted thorough audits of aquatic environments to identify potential hazards, guaranteeing safety for all patrons

Perth & District Indoor Pool **Perth, Ontario**
Head Lifeguard and Head Swim Instructor *June 2022 – August 2024*
• Created and implemented over 150 swim lesson plans for all skill levels, ensuring use for optimal lesson organization
• Strategically organized lifeguard rotations, roles, and responsibilities to maintain high levels of safety and efficiency
• Managed financial operations, performed safety and equipment checks and monitored sanitation for the entire facility

CERTIFICATIONS

- Aerospace Engineering: Airplane Design and Aerodynamic Basic | Issued October 2024 (Udemy)
- Automotive Engineering: Automobile Fundamentals and Advanced | Issued October 2024 (ValueKnow)
- Principles of Healthy Child Development | Issued June 2025 (High Five)
- CPR & AED Standard First Aid Certification | Issued: March 2022; Renewed January 2025 (Canadian Red Cross)
- National Pool Lifeguard Certification | Issued: June 2022; Renewed: June 2024 (Canadian Lifesaving Society)
- Swim Instructor | Issued: September 2022; Renewed: September 2024 (Canadian Lifesaving Society)
- Lifesaving Society Examiner | Issued: October 2023; Renewed June 2025 (Canadian Lifesaving Society)
- Emergency First Aid and Lifesaving Instructor | Issued: June 2023; Renewed June 2025 (Canadian Lifesaving Society)

SKILLS & INTERESTS

- Skills: organization, Python, CAD, xFLR5, project management, leadership, critical thinking, instructing, public speaking
- Interests: Cornell Club Hockey, weightlifting, motorsports, reading, aerodynamic research, golf, ukulele, model airplanes