

# ANDREW CRIX

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## Summary

Analytical and driven engineering physics student with strong quantitative, critical thinking, and communication skills. Eager to apply engineering principles to contribute to solutions that address global issues.

## Education

### Applied Science: Engineering Physics

Expected in 06/2026

Queen's University

Kingston, ON

- **Relevant Coursework:** Physics Design Project (Capstone); Engineering Physics Thesis; Nuclear and Particle Physics; Aerodynamics; Heat Transfer; Mobile Robotics; Economics and Business Practice; Technical Entrepreneurship
- **Scholarships | Awards:** Dean's Scholar; Robert Tyre Jones Jr Scholarship; Support Our Troops National Scholarship; R. H. Clark Applied Science Centennial Scholarship; Albert H. Ruddell Award; "How to Change the World" Challenge award winner; OUA Academic All Star and Most Improved Athlete (Queen's rowing)
- **Events:** Asset Management Hackathon; QMIND; Queen's Space Conference Co-Chair; Orientation Committee Lead; The Knowledge Society participant; Exchange year abroad at the University of St. Andrew's, Scotland

### High School Diploma

06/2020

Lakefield College School | St Andrew's College

Lakefield | Aurora, ON

- Paul and Helene Demarais Family Scholarship | Loran Scholar Semi Finalist | Morehead-Cain Semi Finalist

## Work

### Combat Medic with 25 Field Ambulance Reserve Unit

04/2025 to Current

Canadian Armed Forces

Toronto, Ontario

- Medic support for the local 32 Canadian Brigade Group as well as for future domestic and international deployments.
- Continue to gain medical knowledge and skills; demonstrate values such as respect, integrity, excellence and teamwork.

### Undergraduate Summer Research Award (NSERC-USRA)

05/2024 to 08/2024

Queen's University - Dr Jackson Crane

Kingston, Ontario

- Developed a Schlieren-based diagnostic system, with LabView and Python programs to accurately visualize detonation waves.
- Improved technical, research, and presentation skills.

### Program Assistant

06/2023 to 08/2023

SHAD Canada

St. John's, NL

- Alongside a team of eight, delivered an exciting and rewarding experience for 64 high school students from across Canada

### Harold E. Johns Studentship

05/2022 to 08/2022

Cancer Care Ontario - Sunnybrook Hospital

Toronto, Ontario

- Programmed a communication dissemination system for the Odette Cancer Center's medical physics department.
- Self taught skills to program a functional and secure web based software connected to the hospital database.

### Lifeguard

07/2019 to 08/2019

Canadian Forces Morale and Welfare Services

Borden, ON

- Collaborated with a team to ensure the safety of all civilian and military families involved in swim programs.

## Volunteer

### Global Medic | Toronto, ON | 2021 - current

- Current local volunteer with future goal of international deployment with the Rapid Response Team.

### Epilepsy Toronto | Toronto, ON | 2013 - current

- Presented talks at community groups and schools, helped with events, fundraised, and lead an Accessibility team.

### RCMP National Youth Advisory Committee | Toronto, ON | 2018 - 2019

- Elected member of student team providing input on policies, programs, and strategies run by the RCMP for youth.

## Skills

### Technical

- **Programming:** Python, MATLAB, SQL(MS SQL & MySQL), C++, PHP
- **Engineering Software and Tools:** SolidWorks, LabVIEW, KiCad/Altium Designer, Arduino, Microsoft Office

### Personal Attributes

- **Professional Skills:** communication, collaboration, problem solving, time management, adaptability, commitment
- **Interests:** RCM gr. 10 piano (instructor), hiking, skiing, cycling, reading, entrepreneurship