

# Jesse Novik

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## TECHNOLOGICAL EXPERIENCE

- **Robotics Design and Construction:** Designed and constructed robots in extracurricular clubs for 8+ years.
- **Programming Projects:** Developed 20+ projects for computer science courses and personal experience, including a recreation of the game flappy-bird and software for an interactive LED screen using Arduino
- **Circuit Building:** Built multiple circuits using Arduinos and various electrical components
- **Programming Skills:** Proficient in Python, Java, and C.
- **Robotics Competitions:** Participated in VEX and FIRST Robotics tournaments and challenges, contributing to team strategy, design, and mechanics.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C
- **Software:** Arduino IDE, Visual Studio Code, CLion, Python IDLE, BlueJ
- **Hardware:** Arduino, Robotics (VEX, FIRST Robotics)
- **Tools:** Soldering, Power Tools, Circuit Design

## TRANSFERRABLE SKILLS

- **Leadership and Project Management:** As co-coordinator of the High School FIRST Robotics Club (2022-2024), managed a team of 30+ members by mentoring students in mechanics, design, and programming. Organized sub-teams, set clear project goals, managed timelines, and delegated tasks, ensuring successful competition outcomes. Developed skills in leadership, project management, problem-solving, and planning.
- **Team Collaboration and Mentorship:** As the saxophone section leader for the school concert and jazz bands (2022-2024), guided peers through challenging musical pieces, and created a supportive, collaborative environment. Strengthened skills in communication, mentorship, and teamwork.
- **Communication and Interpersonal Skills:** Consistently delivered clear instructions and feedback and worked through challenges among peers. Built strong interpersonal and public speaking skills through leadership roles in both robotics and band.

## EDUCATION

Country Day School, King City, Ontario  
High School Diploma  
Graduated: June 2024

Queen's University, Kingston, Ontario  
Bachelor of Applied Science in Engineering  
Expected Graduation: May 2028

## AWARDS

- Waterloo CIMC Certificate of Distinction
- FIRST Robotics District Tournament Champion, 2022
- FIRST Robotics District Tournament Finalist, 2023

## VOLUNTEER EXPERIENCE

- **Coding Tutor (2024):** Volunteered to teach coding basics to high school students in grade 11 and 12, focusing on Java.
- **Physics Tutor (2024):** Volunteered teaching grade 11 level physics to high school students.

## ACTIVITIES / INTERESTS

- **Robotics Club:** Active member for eight years, with leadership roles in team projects.
- **School Band:** Saxophone player for four years; participated in school music performances and competitions.
- **Music School:** Specialized in saxophone performance.
- **Sports:** Tennis, table tennis, swimming lessons, watersports, skiing, and ultimate frisbee.
- **CISMF:** Performed in the Conference of Independent Schools Music Festival jazz band for two years.