

Amaar Quadri

WATERLOO MECHANICAL ENGINEERING CANDIDATE

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Summary of Qualifications

- Created several Android applications by independently learning and becoming an **expert in Java and Android development**.
- Well versed in **C++, Python, HTML, CSS, JavaScript, jQuery, MATLAB and AutoHotkey** through self-education.
- Designed, built and programmed a Lego RC car using computer aided design tools and engineering design principles.
- Proficient in several computer aided design programs including **SolidWorks and AutoCAD**.
- Achieved a 3.7 GPA.

Volunteer Experience

PROGRAMMING CLUB INSTRUCTOR

- Founded an after-school Java programming club in high school.
- Prepared and taught lessons to a class of approximately 20 students.
- Worked with students to explain difficult concepts and help them with their Java programs.

TICTACTOE DIGITAL INC. (MARKETING AND DIGITAL ADVERTISING FIRM)

- Developed an Android mobile application for Tictactoe Digital Inc.
- Created single and double player Tic-tac-toe games and an About page where the company could publish content.

Projects

ANDROID APPLICATIONS

- Programmed and published a Checkers Android application, which included an artificial intelligence powered single player mode, dual player mode, and game personalization options.
- Developed organizational skills through managing over 4000 lines of code.
- Programmed a Calculator Android application for personal use.

REMOTE CONTROLLED CAR

- Designed a Lego Technic Car using Lego Digital Designer (a computer aided design program).
- Decided on appropriate electronic components to meet the design specifications.
- Programmed an Android application in Java and an Arduino in C++ to control the car via Bluetooth.
- Created a physics model to give realistic feedback when accelerating and braking.

Achievements

- Received Governor General's medal for the **highest overall average** in high school.
- Received 2 plaques for placing in the **top 200 students in the world** on both the Waterloo Avogadro Contest and the Waterloo Chem 13 Contest.
- Received 5 certificates of distinction for the Canadian Computing, Euclid, Cayley, Fermat, and Sir Isaac Newton Competitions.
- Received the President's Scholarship of Distinction from the University of Waterloo.

Education

- Candidate for **Bachelor of Applied Science, Mechanical Engineering** from the University of Waterloo.
- Attended summer courses at the University of Toronto's Da Vinci Engineering Enrichment Program.
- Persevered through the rigorous International Baccalaureate program in high school.