

Kaleb Ruscitti | Curriculum Vitae

☎ (705) 309 9847 • ✉ kaleb.ruscitti@uwaterloo.ca • 🌐 kaleb.ruscitti.ca

Undergraduate student pursuing a Mathematical Physics degree. Interested in research and application of physics and mathematical techniques, bringing fast learning and strong interpersonal skills to the workplace.

Work Experience

- **Institute for Quantum Computing** **Waterloo**
Research Assistant *January 2017 - Present*
At the IQC I work alongside a team of researchers to design, build and maintain a trapped-ion qubit array, so that we can use it to run quantum information experiments. I design and build optical and electrical laboratory equipment.

Education

Academic Qualifications.....

- **University of Waterloo** **Waterloo**
B.S. (Hons) Mathematical Physics Co-op , Term Dean's Honors List. *2016–2021*
- **Innisdale Secondary School** **Barrie**
OSSD, with Ontario Scholar. *2012–2016*

Notable Projects.....

- **ECHacks Project (Nov. 2016): 'Data Analysis Suite'**
At the ECHacks hackathon in 2016, I worked with two other undergraduates to build a suite that can record a set of data, take a regression of that data and then visualize the data set in intuitive ways using a simple neural network. I specifically worked on the neural network and visualization aspects of the project.
- **N-body 2D Gravitation Simulator (July 2015):**
Using python I wrote software that will simulate the motion of planets orbiting around a central sun, and display the motion real time. It is an accurate model of Newtonian gravitation, and can handle up to 5-10 different bodies interacting at once (depending on hardware).

Technical and Personal skills

- **Programming Languages:** Proficient in Python, including SciPy, with basic understanding of HTML/CSS and Java.
- **Industry Skills:** Experience with analog circuits, optical equipment and laboratory procedures.
- **General Skills:** Working proficiency in French, conversational Mandarin, strong interpersonal skills.

References

- Personal and professional references are available upon request.