





ARUL ARORA

 1B Systems Design Engineering |  a93arora@uwaterloo.ca |  905 - 699 - 9427 |  arularora.com

SKILLS

- Outstanding ability to grasp concepts in a timely manner, manage multiple deadlines in an online and in person environment, and problem solve while clearly communicating ideas within a team dynamic
- **Technical Skills:** C++ • HTML • CSS • VBA • JavaScript • SolidWorks • Microsoft Office Suite • Google Suite

EXPERIENCE

Process Engineer Intern, *BWXT Canada Ltd.*

Jan 2021 - Apr 2021 | Cambridge, ON.

- Accelerated a **\$140 million nuclear project** conducted on Bruce Power's Unit 3 reactor by collecting valuable data that was used to reduce the overall time the reactor was shut off, ultimately saving the customer money
- Refined the data collection software in **Excel VBA** that tracked, transferred, and computed data through databases which **resolved 15 technical issues**, enhanced user experience, and resulted in a **\$2000 gain every minute** the software saved
- Designed a detailed logbook used amongst co-workers for the upcoming 12-hour day/night rotation that accumulated 100% of the necessary data during the shift and provided project managers with a history of past events

Aquatic Instructor, *Town of Milton*

Aug 2018 - Mar 2020 | Milton, ON.

- Managed 8 classes of 10 students with various ages, to improve on their swimming ability in 2-month long courses
- Tracked the progression of students using 8 spreadsheets, which optimized the creation of 80 end of term report cards
- Formed **100+ professional relationships** with students, parents, and patrons by providing multiple solutions to problems and displaying exceptional customer satisfaction when faced with difficult situations

Martial Arts Assistant Instructor, *Fighting Griffin*

Oct 2016 - Mar 2020 | Milton, ON.

- Trained vigorously for 13 years to advance karate techniques and acquire the experience to teach lower ranked belts
- Conducted classes of 25 students teaching various subjects of karate while developing confidence and leadership skills

PROJECTS

Motor Development Engineering, *Waterloop - Student Design Team*

Jan 2021 - Present

- Applying complex properties of physics to design a linear motor that will effectively propel and levitate a hyperloop pod
- Use **SolidWorks** to model relevant components of the motor and use **COMSOL Multiphysics** to test its relevant properties

Personal Website, *arularora.com*

Feb 2021 - Apr 2021

- Built personal website from scratch using customized **HTML5** and **CSS3** code developed in **Visual Studio**
- Grasped a fundamental understanding of web development by taking 3 online courses to apply on the website

Library for Books, *github.com/ArulArora*

Nov 2020

- Using **C++ object-oriented design**, created a data storage solution for books and applied test cases to ensure usability

EDUCATION

University of Waterloo, *Candidate for BAsC in Systems Design Engineering*




Sep 2020 - Present

- **GPA:** 3.98/4.0
- Dean's Honours List
- **Relevant Courses:** Digital Computation • Human Factors in Design • Data Structures and Algorithms • Linear Systems

AWARDS

- University of Waterloo President's Distinction
- University of Waterloo Research Award
- University of Waterloo International Experience Award

INTERESTS

-  Immersing into unfamiliar and modern technology
-  Travelling and exploring new places
-  Managing personal stock market portfolio