





ARUL ARORA

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

SKILLS

- Outstanding ability to grasp concepts in a prompt 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 • Python • SolidWorks • Microsoft Office Suite • Google Suite

EXPERIENCE

Process Engineer Intern, *BWXT*

Jan 2021 - Apr 2021 | Cambridge, ON.

- Collected time-stamped, tool usage, and tool failure data during the training stage of a **\$140 million nuclear project**
- Communicated effectively and wrote detailed logs amongst co-workers to ensure the necessary information was established for the 12-hour day/night shift rotation
- Partnered with a colleague to improve on the existing software the company was using for data collection
 - Developed a new version using **VBA** and **Excel** that tracked, transferred, and computed data through databases which **solved 100% of the pre-existing issues** and immensely enhanced user experience
 - Data from software reduced overall time reactor had to be shut off resulting in a **\$2000 gain every minute saved**

Aquatic Instructor, *Town of Milton*

Aug 2018 - Mar 2020 | Milton, ON.

- Led and planned 8 classes of 10 students with various ages and skill ranges to improve on their swimming ability
- Formed **100+ professional relationships** with students, parents, and patrons by providing multiple solutions to problems and displaying exceptional customer satisfaction

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 Developer, *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
- Grasped a fundamental understanding of web development by taking 3 online courses to apply on the website

Library for Books, *github.com/ArulArora/LibraryForBooks*

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
- **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
-  Staying active and working out