Andre Nonaka

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Skills

Technical Skills:	HTML, CSS, Swift, C, Java and Python
Languages:	Fluent in French, English and Spanish
Clubs:	Robotics club, Programming club, debate club
Interests:	Design (adobe photoshop, illustrator), web creation, vlogging and soccer

Work Experience

Elcodes Developement   **Montreal, Quebec**   **June 2013 - Aug 2016**

Digital Marketing
- Worked on post-production process of videos, including Visual and Auditory editing, and Thumbnail creation.
- Created and maintained company web pages/social media pages.
- Implemented and managed marketing campaigns that promoted its products and services.

Elcodes Developement   **Longueuil, Quebec**   **June 2017 - Aug 2017**

Tutor
- Customized tutoring and instructional approaches to meet the needs of diverse client populations.
- Tutored in all academic subjects and guided students in exam strategies, notetaking and prioritizing assignments.

Sunnybrook (FUS Lab)   **Toronto, Ontario**   **June 2019 - Aug 2019**

Electrical Engineering Intern
- Worked on the design and prototyping of a xenon flash lamp circuit using LTSpice and MATLAB.
- Chained multiple xenon lamps in series in order to extend the duration of flash.
- High flash Intensity and longer duration allows for researchers to see the cavitation of microbubbles more clearly.

Volunteering Experience

Peel Region   **Brampton, Ontario**   **Jan 2014 - Aug 2018**

French Facilitator
- Taught children and families about French Literacy

Canada 55+ Games   **Brampton, Ontario**   **June 2014 - Aug 2014**

Score Keeper and Analyst
- Guided Athletes throughout the day and worked as a team to ensure great experiences for athletes.
- Successfully managed the activities of team members in multiple locations

CurioCity by Let's Talk Science   **Brampton, Ontario**   **Jan 2015 - Present**

Web Content Writer/Article Reviewer
- Wrote and explained scientific topics in an accessible way for both students and the public to understand.
- Worked with Curiocity's professional editing team to ensure that the articles I submitted helped teens see how science, technology, engineering and math (STEM) is relevant to their lives and futures.
- Reviewed scientific articles to ensure that it was up to date and scientifically correct.

The Festival of Literary Diversity   **Brampton, Ontario**   **Jan 2016 - Aug 2017**

Greeting/Hosting
- Guiding and providing information about the literary festival and welcoming diverse authors.

Cardinal Leger Secondary School   **Brampton, Ontario**   **Oct 2016 - Present**
- Helped assemble computers as well as organize all electrical components in a logical and neat fashion
- Strategically organized a concert given by two rock bands.

- Conducted on-on-one tutoring sessions for high school students in Science and Mathematics courses.
- Assessed performance of students in school by reviewing their past test scores and endeavored to keep them on track to exceed previous marks.
- Propelled academic success of dozens of students boosting GPA's and test scores to new bests.

Projects & Competitions

NASA Space Apps Toronto – *Global Nominee*
- Created a predictive algorithm which lays down basic predictions of the level of Rubisco in a red algae cell, given variables of time and the daylight driven fluctuations of the reagents needed to produce Rubisco.

UOIT Engineering Robotics Competition - *Semi-Finalist*
- Built & developed an autonomous robot that faced off with other robots from across the GTA in a SumoBot octagon

The Operations Research Challenge (TORCH)
- Solved complex decision-making problems in a variety of settings, including manufacturing, service industries, logistics, healthcare, energy, and finance.

Concours d'art Oratoire - *2nd place*
- Dufferin Peel French public speaking competition performed a speech on the effects of vitamin overdose.

Peel regional science fair - *Bronze medalist*
- Developed and built a smart mining helmet for coal miners that measured the temperature, toxic gases and light intensity.
- Programmed to send messages to users' phone if any toxic gases are detected and data can be accessed online and can be seen in graph form.

Google Science Fair
- Built & developed Guard-R a wearable device that will measure air pollution, sound intensity, if the worker fell or not and integrated with Google Maps (GPS location of the worker).
- This is all updated real-time through a webserver so that supervisors can check on the health and safety of their workers.

Weston Youth Innovation Award – *Semi-Finalist*
- Built and developed Back-X a wearable device that will measure the angle of curvature of an individual's back utilizing an accelerometer that warns users with haptic feedback.
- Additionally, by utilizing a force sensitive resistor Back-X will alert users through haptic feedback if the weight carried on their shoulders (backpack) is too heavy.
- Consists of an Android Application built with Java and the hardware side built with Arduino.

Publications

Nanobots (2019)	**CurioCity**	(**Status: Review Stage**)
8 by 7 LED Matrix (2017)	**Instructables**	(**Status: Published**)
Soapberries: (2017)	**CurioCity**	(**Status: Published**)
Zika Virus: (2016)	**National High School Journal of Science**	(**Status: Published**)

Education

Cardinal Leger Secondary School   **Sept 2016-Present**
- French Award, Cisco Networking Academy award & Programming award
- CISCO Networking Academy Program (2 years) & Extended French program (4 years)
- Captain of soccer and cross country team.