
ERNESTO SANCHEZ

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Toronto, ON
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Education

Carleton University, Ottawa

Sept 2016 – N/A

Bachelors in Engineering, Electrical. GPA 8.4.

Metropolitan Preparatory Academy, Toronto

Sept 2008 - Jun 2012

High School Diploma. Awarded Exceptional Dedication Award.

Skills

- **Technical Skills**

- *Programming Languages:* C++, Solidity, Python, Web3, Swift (IOS), Java
- *Programs:* MATLAB, G-code, AutoCAD Electrical, ANSYS, Assembly Language, Visual, Simulink, Logisim
- *Data Structures:* Priority queues, Knuth-Morris-Pratt (KMP), Aho-Corasick
- Strong mathematical, analytical and critical thinking skills

- **Soft Skills:**

- Proficient with hands-on activities
- Highly reliable and a great team member
- Detail oriented and able to manage multiple projects

- **Languages:** English (Fluent), Spanish (Fluent) and French (Intermediate)

Work and Leadership Experience

Asst. Superintendent, Bermingham Foundation Solutions, Toronto

May 2012 - Sept 2014

Extended full-time summer co-op for two, four-month summer terms. Responsible for organizing and refining the online database for ongoing and completed construction projects.

Shipping Assistant, Kisko Freezies, Toronto

Feb 2014 - Jun 2018

Hired as a seasonal full-time shipping and logistics assistant for a few consecutive summers. Responsible for the organizing and preparing of daily shipments with the help of software. Also responsible for software debugging and inventory tracking.

Assistant, A&E Precision Machining LTD., Toronto

Jun 2015 - Aug 2017

Created prototype steel models in a summer co-op using various Computer Numerical Control (CNC) machines. Responsibilities included coding, drilling, cutting, and assembling pieces from various grades of steel.

KidAppDev, Toronto

Oct 2018 - Sept 2021

Startup Business, me and a few colleagues from university started a small business teaching kids in high school and middle school how to program IOS apps. Currently still teaching 35 kids and growing, all online.

Projects, Volunteering and Interests

Text2Braille, University Project

- Created an android application that forwards incoming text messages to a 3D printed device using a Bluetooth connection and an Arduino (microcomputer). The Arduino was programmed using C to interpret letters into Braille symbols which were then displayed on a handmade refreshable display. Click [here](#) to watch video.

Java DNA Sequence Matching Algorithm, University Project

- A Java language code project using the Runge-Kutta method to find the percentage of similarity between any two DNA sequences.

Habitat for Humanity, Volunteer 200+ Hours Served

Sept 2010 - June 2011

This was at the East York Restore Location - (416) 755-7353 ext. 5309

- Helping to provide homes to the less fortunate. Being born in Mexico and visiting quite often, I have seen too many people have to live in terrible places, being fortunate enough to have had an amazing home and family growing up in Canada I wanted to give back and I found this to be an amazing way to do so. Habitat for Humanity is an amazing organization with amazing leaders, I couldn't be prouder of my time spent there.

Interests: Scuba Diving (PADI certified), Soccer, Cars, Technology, Programming, and Investing