

## **Allen Lu**

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**January 12, 2020**

**Heather Finn**

**STEMCELL Technologies**

**1618 Station Street**

**Vancouver, BC V6A 1B6**

**Re: Instrumentation Co-op Student (8 months)**

To Heather Finn,

As a passionate and fast-learning problem solver that is well-versed in developing software tools, algorithm design, and circuit technology, it is with great excitement that I have submitted my resume for consideration to be an 8-month instrumentation intern with STEMCELL Technologies Vancouver. As an efficient and vocal team-oriented developer I have experience in Android mobile application development, testing, and presentation in combination with my experience designing and programming Arduinos to solve real-world problems. I am prepared to contribute to your company's technological goals in developing and optimizing robotic technologies while performing any risk assessments, design evaluations, and experiments necessary to ensure quality and efficiency.

I am currently in 3<sup>rd</sup> year pursuing a degree in computing science with a specialization in software practice at the University of Alberta. My focus is on using and understanding software on multiple levels, computer architecture, operating systems, and the application of discrete mathematics in algorithm design. Please look at the following project examples from my resume, which outlines the competencies that I can leverage to further the goals of STEMCELL Technologies Vancouver.

- Designed, developed, and tested an elegant and efficient Mood-Tracking Android Studio mobile application in a team of 6 developers using Google maps and Firestore APIs.
- Created and tested a crime-statistic program with SQLite3 embedded Python with a terminal interface that allows the user to generate graphs and data using Edmonton's crime data.
- Currently developing a custom Arduino lock for a powerlifting gym while listening to customer concerns and criticisms to create newer and improved versions.

My resume provides further detail about the unique skill set and passion I can bring to your team. I truly believe that my experience in programming coupled with my knowledge in Arduino design prototyping will allow me to excel in the STEMCELL instrumentation environment. I hope we can schedule an appointment to talk, thank you for the consideration.

Sincerely,

Allen Lu