May 7, 2018

Avigilon Corporation

555 Robson Street

Vancouver, BC V6B 2B7

Dear Mr. Wilson,

**Re: F18 Technical Coop, ECC RTL, Software, FPGA Design**

I have had many Runescape accounts removed from the game due to the use of free automated scripts, so I began to write my own personalized scripts trying to avoid the inevitable.

As a result, I discovered a hobby for writing these automated scripts for the popular online role playing game, Runescape. The scripts are written in Java and implement a third party framework with a provided API. After following different tutorials and learning from other successful scripts, I created a combating script supporting different locations and enemies. The automation script is implemented similar to a state machine which performs different actions at different states. To increase user experience and robustness, a Graphic User Interface was implemented using the JFrame class to allow users choose their desired specifications. Furthermore, I have a good understanding of C/C++ programming from taken several university courses. One of my favourite projects was Image Manipulation written in C++ running on a Linux server. We were asked to store a given image in a quad-tree data structure, and then implement functions which would modify the quad-tree and in turn manipulate the image. Other projects include translating C code into assembly language and vice versa, and problem solving using mutexes and semaphores.

While working at the Thompson Summer Day Camps as a day camp leader, I gained valuable conflict resolution skills while working with children. Children often get into arguments with each other and it was my duty to resolve such issue in a safe and non-biased manner. I found that the most important rule is to remain very calm and listen to both side of the story before reaching a conclusion and deciding what to do. Small compromises can also satisfy all parties and allow future reconciliation. When stressful or unpredicted situations occur, working cooperatively as a team or seeking for help can sometimes be the most effective resolution. Tasks that may be too large or lengthy to tackle alone can be minimized when help is asked.

I would enjoy the opportunity to meet with you to discuss my qualifications. I can be reached through the UBC science co-op office at interviews@sciencecoop.ubc.ca or 604-822-9513. Thank you for your consideration.

Sincerely,

Jerry Fan