

Alex McKinnon

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EDUCATION

Queen's University

BASc in Computer Engineering
Candidate
Software Engineering Stream
Expected Grad. May 2021

SKILLS

Programming

Experienced:

C++, Java, Python, Unix Bash

Moderate:

MATLAB, Arduino, Nios II
Assembly, VHDL

Beginner:

Swift, TeX

Web Technologies:

HTML5, CSS

Tools:

Cygwin, Eclipse, Visual Studio,
Xcode, Adobe Lightroom,
Photoshop, Premiere,
After Effects, MS Office

COURSEWORK

Entrepreneurship Foundations,
Intro to Canadian Law,
Engineering Economics,
Engineering Design and
Practice,
Computer Architecture,
Data Structures & Algorithms,
Digital Systems,
Discrete Mathematics,
Machine Vision,
Probability,
Software Quality Assurance

AWARDS

Duke of Edinburgh Silver Level,
Alexander Rutherford
Scholarship,
Lang Family Scholarship,
Ray Kingsmith Scholarship

Last updated 2019-09-27

PROJECT EXPERIENCE

CTRLGate Software Startup

September 2017 – September 2018

Co-founder

Kingston, ON

- Co-founded a start up company focused on providing campus access control software for gated communities.
- Approached and on-boarded to an incubator program at the Queen's University Innovation Center.
- Built up a diverse advisory board while learned the ins and outs of starting a business in the tech & security sector.

Queen's Satellite Design Team

Sept 2017 – February 2018

RF Communications Team Member

Kingston, ON

- Assisted with the development of the satellite's antennas communications system software.
- Developed a better understanding of implementing comm systems on satellites for RF communications using the AX.25 protocol.

Autonomous Targeting Defense System

Jan 2017 – Apr 2017

Arduino Programming and Electronics

Kingston, ON

- Assembled a motorized mount for a semi automatic paintball gun to be mounted onto a semi-autonomous sail boat.
- Responsible for the electronics and responsible for the coding of the Arduino that controlled the mount.

WORK EXPERIENCE

Engineering Society of Queen's University

February 2018 – April 2019

Director of Communications

Kingston, ON

- Managed the communication channels of the Society.
- Reported to the society's biweekly council.
- Started an ongoing archiving project with the focus of publishing a publicly accessible archive of old society files and media.
- Lead three content creation teams for production and promotion of the society, and one team for archiving society affairs and media.

Engineering Society - I.T.

Sept 2017 – April 2018

I.T. Support Coordinator

Kingston, ON

- Responsible for managing the society's web server infrastructure ensuring the creation of new websites and constant uptime of ≈ 34 other websites.

Uhaul Moving and Storage

Jun 2017 – Aug 2017

Customer Service Representative

Calgary, ON

- Worked directly with customers to rent trucks, equipment & services that best suited their needs.
- Qualified to perform level one & two inspections on all trucks & trailers.