

Alex McKinnon

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EDUCATION

Queen's University

BASc in Computer Engineering
Software Engineering Stream
Expected Grad. May 2020

SKILLS

Programming

Experienced:

MATLAB, Unix Bash

Beginner:

C, C++, Java, Swift,
NIOS II Assembly, L^AT_EX

Web Technologies:

HTML5, CSS

Tools:

Cygwin, Eclipse, Xcode
Adobe Lightroom, Photoshop,
Premiere

HACKATHONS

QHacks 2018:

Queen's University;

Trained Clarifai's vision API to
recognize the ASL alphabet.

COURSEWORK

Computer Architecture

Data Structures

Digital Systems

Discrete Mathematics

Electric Circuits

Object-Oriented Programming

AWARDS

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

Last updated 2018-02-28

PROJECT EXPERIENCE

Queen's Satellite Design Team

Sept 2017 – present

RF Communications Team Member

Kingston, ON

- Assisting with the testing and implementation of the satellite's antennas comm systems.
- Developing a greater understanding of implementing comm systems on satellites for RF communications.

Autonomous Targeting Defense System

Jan 2017 – Apr 2017

Arduino Programming and Electronics

Kingston, ON

- Part of a team that designed and built 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.

Arabian Nights Musical Production

Oct 2015 – Dec 2015

Audio Engineer

Calgary, AB

- Assisted with creating sound effects to be used in the musical.
- Responsible for setting up wireless mics for the cast and ensuring proper sound levels throughout the musical.

WORK EXPERIENCE

Engineering Society - I.T.

Sept 2017 – present

I.T. Support Coordinator

Kingston, ON

- Responsible for managing the society's server infrastructure ensuring constant uptime of ≈ 34 websites.
- Developing technical skills for work with servers (Linux server permissions, load balancing & security).

Engineering Society Communications Team

May 2017 – present

Photography Manager

Kingston, ON

- Delegating photography jobs to those most qualified on the team.
- Providing skill development resources to each team member.

Uhaul Moving and Storage

Jun 2017 – Aug 2017

Customer Service Representative

Calgary, ON

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