# **MATTHEW BRAUN**

Searching for: 8 Month Coop Winter 2020

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## **PROJECTS**

### 3D Printer [Photos]

🛗 January 2016 - April 2016

- Built a 3D Delta Printer from scratch. Build is similar to Kossel printers, but I ordered all the parts online separately.
- Printer is run with an Arduino ATMega 2560 microcontroller, and controlled on a PC.
- Utilized: Atmel, Arduino, Repetier, PronterFace, Simplify3D, Marlin, C++

### Tweet Heat [Demo Video]

Movember 2018

- Used a Twitter API key to collect latitude/longitude coordinates of live Tweets at the time of posting, along with the Tweet they posted
- This project won the HackED Beta 2018 hackathon competition, and a demo can be found on my website
- Utilized: Python, Flask, HTML, SQLite, API Keys

### Audio Visiualizer [Demo Video]

March 2019 - April 2019

- Created a program which would take an audio file as input, and convert it into a 3D frequency bar graph animation.
- 3D Visualizer demo can be found on my website
- Utilized: Qt, C++, Algorithms

#### My Website [matthewbraun.ca]

Aug 2019 - Ongoing

- This is the project I am working on currently. It is not completely finished yet, but check it out if you'd like to see more about me and my projects!
- Utilized: HTML/CSS, PHP, JavaScript

# **WORK EXPERIENCE**

#### **Deskside Support Analyst**

Compugen Inc.

- May 2019 Aug 2019 (Full-time) 

  ♥ Edmonton,AB
- Worked with hundreds of Government of Alberta employees, at several different Edmonton office locations, on a large-scale Windows 10 Enterprise domain
- Communicated with these clients effectively to ensure that their issues were resolved in a timely manner
- These issues entailed work such as: updating BIOS firmware, reimaging PCs, network diagnostics, editing registry keys, updating databases, replacing laptop parts.

#### **Concrete Repair Labourer**

Crack Chaser Concrete Repair

- Worked effectively and quickly in high-stress environments, in teams and on my own.
- Poured several different concrete structures, such as driveways, staircases, ramps, curbs etc.
- Operated numerous pieces of heavy-duty power equipment, such as gaspowered saws, jackhammers, concrete mixers

# **EDUCATION**

BSc. Computer Engineering, Co-op

University of Alberta

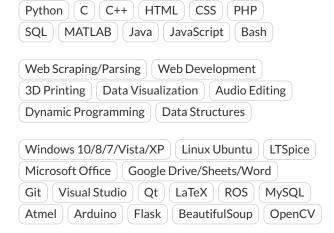
Completed Academic Terms: 5/8
Completed Work Terms: 1/5

GPA: 3.0

## Sept 2016 - May 2022

- Received Facultry of Engineering Academic Excellence Scholarship, as well as the Rutherford Scholarship
- Took micro + macro economics as an elective
- Have a Class 5 Advanced Driver's License and a registered vehicle in Alberta

# LANGUAGES/SKILLS/TOOLS



# **EXTRA-CURRICULARS**

#### Software Team Member

Space Exploration Alberta Robotics [Link]

Sep 2018 - Ongoing

- Worked on drive controls for our team's rover
- Currently working on colour/shape detection software using OpenCV for our next competition

#### **Guitar Teacher**

Heart of the City Music Program [Link]

Sep 2017 - Ongoing

- Teach guitar/piano for kids in grades 4-6
- Also perform at their fundraising events occasionally

#### **About Me**

- I enjoy going rock climbing and weightlifting
- I like music. I have been playing guitar for 15 years, and piano for about 7
- Recently, I've been working on adding stuff to my website
- I am also just starting to work on a small Android game