

# Kai Mikkelsen



(587) 583-0101



kaimikkelsenwork@gmail.com



github.com/KaiMikkelsen

## Education

Bachelor of Software Engineering 2017 - Present  
*University of Victoria*

## Technical Projects

Personal Website April 2020 - Present

- Webpage designed to display my personal profile and develop my user interface skills.

Barbecue Temperature Controller Fall 2019

- Arduino microcontroller based charcoal barbecue temperature control system. Involved researching, soldering, testing and programming multiple electrical components.

Autonomous Cable Connecting Robot Spring Term 2018

- Worked as part of a three-person team to program and design a robot that would autonomously connect a cable to a light emitting beacon. The robot used a custom designed circuit and was programmed in C.

## Work Experience

Jr Software Engineer Summer Term 2019

*TC Helicon (Victoria, BC)*

- Developed an I<sup>2</sup>C driver to communicate with a touch sensor IC, this involved reading numerous product datasheets, incorporating the MCU Expresso SDK into my code and developing my own efficient algorithms for data transmission and processing.
- Expanded on various UI elements in a C++ based PC application: Implemented app-wide tooltips and designed and implemented a new in-app tutorial system, giving users an improved learning experience by using dynamic learning paths and videos.
- Rigorously tested both my own and other developers' software along with various professional audio products for bugs and defects.
- Worked on a tight-knit engineering team comprised of hardware engineers, software engineers and product managers, creating multiple industry defining audio products.

Bartender, Host, and Bus Boy July 2015 – August 2018

*4<sup>th</sup> Spot Kitchen and Bar (Calgary, AB)*

- Worked tending bar as part of a 20-person team in a busy restaurant.
- Helped fellow staff and interacted with customers, requiring a friendly, flexible attitude and great communication skills.

## References

Daniel Davies (TC Helicon)  
ddavies09@gmail.com  
(250) 661-6336

Katie Carson (4<sup>th</sup> Spot)  
Katie@4thspot.com  
(403) 984-3474

## Languages

(In Order of Proficiency)

C

C++

Java

HTML/CSS

Python

SQL

## Frameworks

Juce

## Tools

Git

Visual Studio

Wireshark

Logic Analyzers

## Key Coursework

Signal Processing

Operating Systems

Computer Networks

Data Structures/Algorithms

Software Testing

## Interests

*Sports:* Ultimate Frisbee

Volleyball, Hockey.

*Outdoors:* Hiking,

Mountain Biking,

Snowboarding.

*Music:* I played cello for 10 years, guitar and bass in bands, and continue to write and produce songs.