

# Aidan Crowther

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## LINKS

Github:// [aidancrowther](#)  
LinkedIn:// [aidancrowther](#)

## EDUCATION

**CARLETON UNIVERSITY**  
**BCS IN COMPUTER SCIENCE**  
April 2019 | Ottawa, On

## SKILLS

### LANGUAGES:

C++ • C • Assembly(x86/HC12/RISC)  
JavaScript • Java • Python • HTML

### FRAMEWORKS:

Express • NodeJS • Electron • Socket.io

### TECHNOLOGIES:

SQL • MongoDB • Docker  
Hyper-V Server • Ubuntu Server  
FreeBSD • Google Cloud Platform  
• Fusion360 • Eagle

### LIBRARIES:

Virtual Wire • Evilscan • rUptime  
BootStrap • TensorFlow • ffmpeg

## VOLUNTEER

**CARLETON COMPUTER SCIENCE  
SOCIETY | 2018 - 2019**

- Vice-President

**CARLETON DEV CLUB | JAN 2018 -  
APRIL 2019**

- Co-lead and Founder

## COMPETITIONS

- |      |                                       |
|------|---------------------------------------|
| 2018 | Hack All The Things 2.2<br>Placed 1st |
| 2019 | CUHacking<br>Won best use of GCP      |
| 2020 | CUHacking<br>Won Ross-Video challenge |
| 2025 | CUHacking<br>Won Most Outrageous Hack |

## EXPERIENCE

### BLACKLINE | EMBEDDED DEVELOPER

May 2016 – Sept 2018 | Ottawa, ON

- Worked on embedded web solutions, including web/hardware interfacing
- Developed VXWorks system utilities for custom deployment
- Debugged and tested deployment HC12 code
- Hardware verification for multiple products
- Working with DMA and embedded hardware solutions

### WINDRIVER SYSTEMS | SYSTEMS ENGINEER

May 2019 – November 2020 | Ottawa, ON

- Worked on the Helix Virtualization Platform (HVP)
- Jenkins and Test infrastructure management
- JIRA/Agile development and bug management

### STATISTICS CANADA | CLOUD SOFTWARE DEVELOPER

November 2020 - present | Ottawa, ON

- Working to develop enterprise search cloud
- Kubernetes and cloud system management

## PROJECTS

### ODYSSEUS May 2017 - November 2017

- An internal web service for automatically finding and listing local web services
- Created in **NodeJS** with resource locating done using **Evilscan** and server monitoring using **rUptime**

### DICE KITS March 2017

- A development kit designed for a workshop to teach basics of hardware interfacing
- Designed and organized a team to construct all boards
- Ran a workshop for different levels of understanding, allowing more advanced users the opportunity to make use of other advanced MCU features

### WEATHER LOGGER April 2017 - May 2019

- A power optimized datalogger designed to track local weather data
- Made use of low power features of the MCU to get average power consumption below 1mA
- Using an RF connection, data is sent to a local receiver and tracked on a database VM
- data is accessible in JSON format for reporting and tracking of trends

### ASCIPLAY May 2020 - Present

- A custom designed video player application capable of rendering video to ASCII
- Utilizes multiple C concepts and frame buffering for smooth playback
- Subtitle support as a key feature as all similar players lacked this