

# David Castellon

Software Engineer

Software Engineer with experience building and maintaining computerized systems for optimizing business work flows.

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## SKILLS

C, C++, C#, JavaScript, Python, SQL, HTML, CSS, Dart, Flutter, Docker

## LANGUAGES

English, Spanish

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## EXPERIENCE

### North American Stainless — Jr. Business Engineer

2023-2025

Supported, audited, and created functionality in a custom computerized maintenance management system(cmms) built in C#.

Helped design microscope image datastore solution.

Worked on programmatically accessing camera feeds using c# milestone api.

Implemented request reply over mq and exposed it using an http api.

### University Of Louisville — Teacher's Assistant

2022

Implemented decentralized drone drawing. The following is a video illustrating many instances of the decentralized application interacting with many simulated quadcopter drones in gazebo to draw different shapes.

<https://www.youtube.com/watch?v=d-RKNVg-LW4>



### Daifuku — Software Engineer Co-op

2021

Learned how to programmatically control Microsoft Excel using javascript api and visual basic macros.

## EDUCATION

### **University Of Louisville — Bachelor's Computer Engineering and Computer Science**

2016-2022

## PERSONAL PROJECTS

### **Half Step**

HalfStep is a cross platform mobile application I am creating intended to aid musicians in analyzing audio visually in real time. The primary motivation behind this application was that I could not find a free chromatic tuner that I liked on the app store. The following is a demo video of the application.



<https://youtube.com/shorts/O7dqs-7cx2E?feature=share>

### **Lidar Scan Decode**

Extracted Lidar data to an octomap from a Lidar that was placed on the University of Louisville Belknap campus. The data extraction was done using Python. The following is a video of the octomap.



<https://www.youtube.com/watch?v=NBB6wmGIBRs>

### **Resume Site**

<https://david-castellon.github.io/resume/>

