

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

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/>

