# David Castellon

Computer Engineer

Carrollton, Ky 41008
(502) 525-9983
david.castellon.work@gmail.com

Computer Engineer with experience building computerized systems for optimizing business work flows.

## 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 and audited a custom built computerized maintenance management system(cmms) called digital forms system(dfs). Dfs was built using c# maui. I also rewrote the front end using dart and flutter because the contractor's who built it.

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.

Built sites using C# and mvc pattern.

### 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.

## 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 without advertisements. The following is a demo video of the application.

https://youtube.com/shorts/Q7dqs-7cx2E?feature=share

## Lidar Scan Decrypt

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/