

David Castellon

Software Engineer

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

Software Engineer with experience building internal business systems, C#/NET applications, APIs, camera and data integrations, and cross platform Flutter apps.

SKILLS

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

LANGUAGES

English, Spanish

EXPERIENCE

North American Stainless — *Jr. Business Engineer*

2023-2025

Maintained and extended a custom-built computerized maintenance management system (CMMS) in C#, including integration with JD Edwards to support maintenance workflows, audits, and operational improvements.

Helped design a datastore solution for microscope images to improve storage and retrieval of inspection data.

Integrated camera feeds programmatically using the Milestone C# API for internal imaging and monitoring workflows.

Implemented request reply messaging over MQ and exposed the functionality through an HTTP API for system integration.

University Of Louisville — *Teacher's Assistant*

2022

Built a decentralized drone coordination demo in Gazebo, enabling many simulated quadcopters to collaboratively draw shapes.

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



Daifuku — Software Engineer Co-op

2021

Automated Microsoft Excel workflows using the JavaScript API and Visual Basic for Applications (VBA).

EDUCATION

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

2016-2022

PERSONAL PROJECTS

Half Step

Built a cross-platform Flutter application for real-time visual audio analysis and chromatic tuning.

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



Lidar Scan Decode

Processed raw LiDAR data into a point cloud and transformed it into an OctoMap visualization, helping convert sensor output into a usable 3d environmental representation.

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



Resume Site

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

