

Drew Raymond Williams

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EXPERIENCE

LOCKHEED MARTIN | SOFTWARE ENGINEERING ASC. Owego, NY (Remote) | June 2020 – Present

- Re-implemented major features in web application port using C# and SQL.
- Created custom machine learning model to detect objects from onboard camera.
- Integrated machine learning model into existing object detection code repository.
- Updated automated build pipelines to run ML model.
- Created docker containers to allow object detection code to be portable and allow use of GPUs.

FIRST ROBOTICS TEAM 2053 | ALUMNI AND MENTOR Endicott, NY | September 2012 – Present

- Lead a small team of students to program a robot while teaching them about software engineering.
- Created an OpenCV application to find field targets in real time on a raspberry pi and sent information about targets back to central processor.
- Implemented a motion profiler and path follower for a 4-wheel holonomic drive system.
- Created a GUI application in JavaFX to visualize paths for the robot to follow as well as export them to the robot.

LOCKHEED MARTIN | SOFTWARE ENGINEERING INTERN Owego, NY
JUNE 2019 - AUGUST 2019

- Automated user migration from legacy server to SharePoint system using C# for long range defense radar.
- Mocked-up new SharePoint site using HTML and CSS to customer specifications.
- Used internal REST API to automate population of Excel files and save our team 20 hours of work.
- Refactored old C# ASP.NET web application and added documentation to increase code readability.

JUNE 2018 - AUGUST 2018

- Created a script to automatically generate configuration files that saved developers two days of work a year on USPS Mail Sorting System.
- Isolated a bug in vendor's software for conveyor belt and communicated with them to fix the bug and update the program. This allowed the team to add more hardware interfaces without overflowing.
- Pinpointed a networking bug in software / hardware interface and updated configuration to fix it.

JUNE 2017 - AUGUST 2017

- Created a C# application to help users verify software versions and dependencies on US Navy helicopter by importing CSV files and verifying characters limits, duplicates, etc.
- Ran software verification procedures on Air Force graphics boards for formal testing. Verified output on screen as well as console output.

JUNE 2016 - AUGUST 2016

- Created an internal web application that tracks user's requests for new devices such as laptops and phones in order to decrease load on managers.
- Used SQL queries and databases to pull data into C# backend.
- Created a Tableau dashboard to see usage statistics for different projects.

EDUCATION

SUNY UNIVERSITY AT BUFFALO | BS COMPUTER SCIENCE Buffalo, NY | August 2016 - May 2020

SKILLS

EXPERIENCED IN: C++, C#, Robotics, HTML, CSS, Javascript, Java, C
FAMILIAR WITH: Docker, Python, SQL