Drew Raymond Williams

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EXPERIENCE

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.

LOCKHEED MARTIN | SOFTWARE ENGINEERING INTERN   Owego, NY | 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.

LOCKHEED MARTIN | SOFTWARE ENGINEERING INTERN   Owego, NY | 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.

LOCKHEED MARTIN | ENTERPRISE BUSINESS SERVICES INTERN   Owego, NY | 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

Relevant Courses: Advanced Networking Concepts, Programming Languages, Robotics Algorithms, Blockchain App Development, Software Engineering, Operating Systems, Theory of Computation, Software Quality In Practice, Intro to Algorithms, Data Structures, Computer Science Seminar

VESTAL HIGH SCHOOL | SCHOLARS DIPLOMA   Vestal, NY | September 2012 - June 2016

SKILLS

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