

Liam McKane

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EXPERIENCE

Quality Engineer

July 2022 - Present

Alarm.com | Tysons, VA

- Manage comprehensive software and hardware testing initiatives aimed at enhancing the performance of 1 million Skybell and VDB770 video doorbell devices. This encompasses thermal, battery, and faulty device testing, along with addressing dealer concerns.
- Played a pivotal role in refining the package alerts and perimeter guard functionalities for VDB770.
- Devised and executed the test plan for the novel 'relay panel notifications' feature and collaborated closely with cross-functional teams to ensure exhaustive test coverage.
- Evaluated both frontend and backend components to facilitate the seamless delivery of updated agreement terms to customers for a video feedback feature. Spearheaded the formulation of the test plan and associated documentation.

Software Engineer Intern

May 2021 - August 2021

MicroStrategy | Tysons, VA

- Created an improved developer website utilizing GitHub, Markdown, HTML, CSS, JavaScript, and static site generators Eleventy, Jekyll, and DocFX
- Utilized scrum workflow with a team of fellow interns and mentors.
- Participated in bi-weekly hackathon projects involving data analysis and utilizing internal tools

PROJECTS

RobotX Maritime Challenge

- Worked on Mason's RobotX competition team to create a UAV that utilizes an aerial vantage point to provide navigation data for the WAM-V, operates autonomously, and is capable of object retrieval.
- Worked on a self-leveling platform subsystem that utilizes an Arduino coded with C++.

FPGA Design with VHDL Ping Pong Game

- Using Xilinx Vivado and the VHDL language, created a ping pong game that ran on a Basys3 board and displayed on a monitor via VGA.
- Implemented a rectangular mouse cursor to act as a paddle to hit the ball around the screen, while a sevensegment display on the board kept score. Different physical switches on the board were used to specify movement speed and direction of the ball as well as the starting coordinates.

EDUCATION

George Mason University | Bachelor of Science in Computer Engineering

August 2018 - May 2022

- *Board Member*, HackOverflow GMU; *Graphic Designer*, GMU Esports

SKILLS

Python | C/C++ | Java | SQL | VHDL | Verilog | JavaScript | HTML | CSS | Markdown | MATLAB | Visual Studio | GitHub | PSpice | Inventor | Jira | Confluence | Bitbucket | Sumo Logic | Wavefront | Wireshark | Windows | UNIX | LINUX | macOS