

# Liam McKane

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## EXPERIENCE

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### 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

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### 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

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George Mason University | Bachelor of Science in Computer Engineering

August 2018 - May 2022

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

## SKILLS

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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