

## Education

Lakeland, FL	Florida Polytechnic University	Aug 2016 - Dec 2019
<ul style="list-style-type: none"><li><b>Major:</b> Computer Science, B.S. (GPA: 3.8) with a Concentration in Cyber Security</li><li><b>Coursework:</b> (<i>fundamentals</i>): Algorithms, Data Structures, OS Concepts, Networks, Project Management, Statistics (<i>topics</i>): Computer Vision, Autonomous Systems, Software Engineering, Human-Computer Interaction</li></ul>		

## Employment

Software Engineer Intern	Motorola Solutions	May 2019-Aug 2019
Systems and Solutions team for Innovation Design and Realization.		
<ul style="list-style-type: none"><li>Prototyped a cost-efficient RGB-D based RTLS, similar to OpenPTrack, by testing different RTLS's for people tracking, creating deployment models, and performing cost-benefit and feasibility analyses.</li><li>Visualized the distance of persons from a point, based upon the strength of their phones' bluetooth signal, by using plot.ly to process data through an Azure API.</li><li>Collaborated with a team on a hackathon project (Suspect Search) by implementing the keyword detection, speech-to-text, and natural language processing components.</li><li><u>Leveraged knowledge</u> in Git, Docker, C, C++, Python, OpenCV, Matrix Math, Azure App/Log Analytics, plot.ly, Grafana, Intel RealSense SDK &amp; D435 RGB-D camera.</li></ul>		

IT Administrator	Maven Asset Management	Feb 2017-May 2019
<ul style="list-style-type: none"><li>Refined management of Windows and Linux development VM's through VMware vSphere by crafting templates, standardizing server documentation, and automating server updates and backups.</li><li>Improved company website security and performance through WordPress updates, backups, and database optimization.</li><li>Implemented a network monitor, firewall and VPN, and centralized security administration by respectively creating a server for LibreNMS, pfSense, and Kaspersky Security Center.</li><li>Assessed and inventoried the entire IT infrastructure by creating diagrams, supporting documentation, and advocating the use of management tools like Trello.</li><li><u>Leveraged knowledge</u> in Bash Scripting, Virtualization (VMware vSphere), Network Security (pfSense), Computer Security (Kaspersky Security Center), SQL Database Management (phpMyAdmin), cPanel, and WordPress.</li></ul>		

## Projects

**Personal Website:** www.jwmcgettigan.com (for more information and projects)

- Utilized: JavaScript, HTML, CSS, ReactJS, NodeJS, Git

### PhoenixHacks Live:

- Developed a React app that functions as a real-time information hub for users to refer to during PhoenixHacks.
- Designed and wrote the web app after kickstarting it with create-react-app.
- Setup an API server hosting a discord bot and a socket.io server - for real-time announcements from discord.
- Utilized: JavaScript, HTML, CSS, ReactJS, NodeJS, ExpressJS, DiscordJS, SocketIO, Git

### RGB-D Based RTLS:

- Exercised high levels of linear algebra for conversions between spatial frames of reference.
- Created stitched visualizations of point cloud data from multiple cameras and a top-down view of tracked persons.
- Utilized: Python, OpenCV, C, C++, OpenPTrack, ROS, Linux, Git

### Gaze-Based UI Navigation:

- Developed an OpenCV application that walks the user through calibrating their eyes' focal point with their mouse cursor.
- Utilized: Python, OpenCV, Git

### Renegade:

- Lead a team of two in the creation and testing of software for a level 3 autonomous vehicle using computer vision and sensor fusion technologies.
- Utilized: Python, OpenCV, ROS, LiDAR, ZED Stereoscopic Camera, Nvidia TX2, Linux, Git

## Skills

**Software:** (*proficient*): Python, JavaScript, Java, Unix, Git, HTML/CSS, Bash | (*familiar*): C, C++, C#, SQL, NoSQL