

Douglas Middleton

2736 Raintree Cir · Tallahassee, FL 32308 · Cell (918) 809-5780

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Highlights of Qualifications:

- Lead architect of complete back end software redesign.
- Performed research and development for new flight simulation products
- Named Inventor in Patent US20170200386A1 - Apparatus, engine, system and method of providing simulation of and training for the operation of heavy equipment
- MS in Computer Science, BS in Electrical Engineering, and BS in Mathematics

Work Experience:

Syntech Systems- *Fuel Management*

Senior Software Engineer *May 2019 - Current*

- Lead architect for Enterprise software, front and backend.
- Responsible for producing design documents and diagrams for new features to be implemented by three feature teams.
- Creates initial proof of concept software for new experimental features.
- Designed and Implemented an Ionic based mobile app for managing fueling hardware via Bluetooth connection.
- Mentors team of Intern software engineers.

Praxis Inc- *Contractor Naval Research Lab (Secret Clearance)*

Senior Software Engineer *January 2017- May 2019*

- Lead architect on Java Spring Boot backend software redesign.
- Developed Angular and Java Swing graphical user interfaces for use in the control and monitoring of satellite ground equipment.
- Created JavaScript automation scripts for controlling hardware systems across a distributed network.
- Employed test driven development in a scrum framework.

FlightSafety International- *Flight Simulation*

Software Engineer III in Special Projects *August 2015- January 2017*

- Researched and Developed new products and improvements to existing processes
- Created a new Qt based graphical user interface to reduce the time needed to produce a graphical flight simulator
- Designed software that uses cameras to automatically align and blend multiple projector images into one seamless image

Software Engineer III in Navigation *May 2011- August 2015*

- Developed complete aircraft navigational source code and flowcharts to emulate real world avionics equipment including GPS, FMS and Radios
- Experienced in integration of Honeywell EPIC, Collins Proline and Garmin avionics systems
- Responsible for reviewing aircraft specification documents and implementing new navigation software to produce a high fidelity real time simulation
- Prepared customer test guides and performs standardized checkout procedures
- Produced a simulation of wind turbulence effects around large obstacles

Fortress Solution- *Telecommunications repair facility*

Failure Verification Technician *February 2007- February 2008*

- Responsible for isolating and troubleshooting failures of telecommunication circuit boards manufactured Cisco, Nortel, Alcatel and Redback Networks
- In charge of configuring the Cisco 15800 series platform, including the design of all testing and failure isolation procedures
- Researched and updated techniques to improve analysis procedures of Nortel Opera Metro 3500 chassis
- Internal Auditor for ISO certification

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Education:

Georgia Institute of Technology

Fall 2017- Fall 2020

Masters in Computer Science specializing in Computational Perception & Robotics

Graduation: Dec 2020

Oklahoma State University

Fall 2005- Fall 2006, Fall 2008- Spring 2011

BS in Mathematics and Electrical Engineering specializing in Communication Controls and Signal Processing

Graduated: Dec 06, May 11

Skills:

Experience in: Java, C++, Angular, Spring Boot, OSGI, REST, SQL, Test Driven Development, Qt, TFS/Git, OpenCV, Matlab, NvAPI, Fortran, MATLAB, Electronic diagnostics, Statistical Analysis