

## SUMMARY

A Software Engineer with over 7 years of professional programming experience, mainly in user interface development, simulators, and computer graphics.

## SKILLS

*Programming Languages:* Ada, C, C++, C#, Python, Java, JavaScript

*Operating Systems:* Microsoft Windows, Ubuntu, Red Hat, CentOS

*Protocols:* HTTP, UDP, MODBUS, CIGI

*Tools & Technologies:* Microsoft Visual Studio, GTK, Bash Scripting, RTI DDS, Unity, Unreal, Git, Gitlab

*Others:* Multithreading, Socket Programming, Serial Programming, Computer Graphics

## WORK EXPERIENCE

*Software Engineer Senior*  
*Lockheed Martin*

*February 2017 - Present*

Developed and maintained ground training simulator software. With several multimillion-dollar products that met government testing standards and were successfully fielded.

- Developed simulation applications using the Unreal Engine with an emphasis on multiple instances coordinating via network communication to simulate different points-of-view within a vehicle
- Developed simulation applications using the Unity Engine interfacing with proprietary libraries
- Major contributor developing tools to transition from RCS (Revision Control System) to Git, which included a custom solution using Git subtrees to manage a monolithic repo
- Contributed to the transition from local build systems to cloud solutions (Jenkins, Gitlab)
- Developed and maintained applications that use the DDS specification for network communication
- Developed and maintained applications that use the CIGI protocol for network communication

## EDUCATION

University of Central Florida  
**B.Sc. with Honors in Computer Science**  
Honors: *magna cum laude*

*Graduation date:* Dec 2016  
*GPA:* **3.940**

## PROJECTS

*3DCytoflow*

*September 2015 – April 2016*

- Team Size: 3
- Role: Designer, Developer, Tester
- Technologies used: ASP.NET MVC 6, Bootstrap, JavaScript, T-SQL, Git, Ubuntu Linux, Three.js

Our system provided online visualization of flow cytometry data using Cloud Computing, with wide applications in medicine – specifically cancer treatment. It implemented an algorithm researched at the University of Central Florida that simplified high-dimensional datasets into three dimensions.

*Remote Thermal Therapies (Android App Prototype)*

*January 2015 – June 2015*

- Role: Designer, Developer, Tester
- Technologies used: Android SDK, Eclipse, Bluetooth, MODBUS, SQLite

This Android application allowed online monitoring and prescription of thermotherapies, removing the need of human oversight during therapy sessions. The application added a touch user interface, automatic thermotherapy execution and internet connection to a digital water temperature controller.