

---

# MANUEL GONZALEZ

---

12986 Mallory Cir apt 103  
Orlando, FL, 32828

U.S. Citizen

(786) 768-8873  
[manogonzalez1994@gmail.com](mailto:manogonzalez1994@gmail.com)  
[manolo94.github.io](https://github.com/manolo94)

## SUMMARY

A Computer Science graduate from University of Central Florida with over 5 years of professional programming experience, mainly in user interface development, simulators, and computer graphics.

## EDUCATION

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

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

## SKILLS

*Programming Languages:* Ada, C, C++, C#, 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  
*Others:* Multithreading, Socket Programming, Serial Programming, Computer Graphics

## WORK EXPERIENCE

*Software Engineer*  
*Lockheed Martin*

*February 2017 - Present*

Mainly developed and maintained ground training simulator software. Most of the work I did was part of multimillion-dollar contracts that passed government testing and were successfully fielded.

- Won a SPOT Award within 6 months. Won 2 SPOT awards in 2020.
- Developed and maintained applications that use the DDS specification for network communication
- Developed and maintained applications that use the CIGI protocol for network communication
- Integrated software with physical hardware (lights, switches, sensors, motors)
- Experience with the Linux OS, specifically RedHat and CentOS
- Experience developing for networked systems
- Experience developing using the Unity game engine

## 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.