

# Elena Sparacio

Software Engineer



<https://esparacio.github.io/interactive-portfolio/>



908 – 256 – 6414



elsparacio@gmail.com

## RELEVANT EXPERIENCE

### Software Engineer, ARRIS

Suwanee, GA

Feb 2017 – Current

- Programmed product features in C++ using large libraries and a complex codebase for major E6000 releases
- Expert for the CLI-TEST: coding scripts to automate, optimize, and streamline the CLI testing of over 4000 commands for the E6000 CMTS
- Lead the team's software development phase of code collaboration (CLABs), where team-wide collaboration is required for early detection of defects
- Performed quality analysis of CLI Tests using the E6000 chassis and E6000 simulator to diagnose and uncover critical issues
- Created a formal code review tool using Code Collaborator, maintained "gtest", and created our team's Confluence reference pages
- Selected as a Site Lead for the intern program last summer, represented ARRIS at several events, and trained two other engineers on the team

### Software Engineering Intern, ARRIS

Suwanee, GA

May 2016 – Aug 2016

- Created automation scripts for the CLI-TEST, a comprehensive test for the command line interface for the E6000 CMTS
- Collaborated closely with team members to identify, solve, and close product defects

### Programming Instructor, Imagine That

Alpharetta, GA

May 2015– Aug 2015

- Instructed a group of 10-20 children in robotics utilizing EV3 and NXT, and in programming utilizing LUA
- First instructor to complete 3 of the most complicated LEGO Mindstorms builds with students

## COMPUTER AND TECHNICAL SKILLS

### Programming Languages:

Java, C++, Perl, Unix/Linux, Python, C, C#, JavaScript (limited), HTML/CSS, EL, XML, SQL, Swift (limited), LUA

### Knowledge:

Agile/Scrum, web development, responsive web design, servlets/JSPs, jQuery, object-oriented programming, databases, JDBC, user interfaces, web architecture concepts, design patterns, debugging, game development, version control, automated testing

### Applications:

Eclipse, Confluence, ClearCase, GitHub, Code Collaborator, Bitbucket, Unity, Apache Tomcat, OpenShift, MySQL/mysqlWorkbench, Processing, Particle.io, Android Studio, XCode, Netbeans, Microsoft Office, Photoshop, Social Media Platforms

## EDUCATION

### Elon University

Graduated Jan 2017

### Honors and Scholarship

Elon College Fellowship,  
Presidential Scholarship,  
Member of Sigma Tau Delta

### Major

Computer Science

### Minor

English – Creative Writing

**GPA** 3.6

## RESEARCH

### Interaction of Volumetric Cubes and Mobile Applications through Gaming

- Research on exploring the potential of using a tangible interface/volumetric display in 3D mobile application development
- This project explores the design and implementation of software to support games that combine an Android mobile device and an LED cube
- Presented at Consortium for Computing Sciences in Colleges South East Conference 2016

## INTERESTS

### In my spare time:

- I ride horses
- Write novels and read novels
- Run 5ks
- Box