
Ivan Eduardo Guerra

Permanent Address:

800 Meyer Lane #18
Redondo Beach, CA 90278
E-mail: ivan.eduardo.guerra@gmail.com

Contact Information:

Mobile Phone #: (580) 341-8882
Alternate E-mail: Ivan.E.Guerra-1@ou.edu
GitHub: www.github.com/ivan-guerra

Education

University of Oklahoma: Norman, OK
B.S. Computer Science

Graduation Date: May 2017

- **3.96/4.00** Cumulative GPA
- Mathematics Minor
- Spanish Minor (Bilingual)

- Lean/6 Sigma Green Belt Certified
- University of Oklahoma Honors College

Professional Experience

Raytheon - Space and Airborne Systems

June 2017 - Present

Electro-Optic/Infra-Red Pod (EOIR) Software Engineer

- Increased EOIR C++ test coverage from 22% to 35% by integrating the gcov source code coverage tool into the EOIR build system.
- Discovered numerous memory and threading errors in the EOIR C++ codebase by using the Valgrind Memcheck/Helgrind tools, leading to an effort to correct the errors prior to proceeding with product development.
- NULL

ExxonMobil - Data and Information Systems

May 2016 - August 2016

Manufacturing and Supply Applications Engineer

- Automated the process of optimally loading chemical cargo aboard vessels by applying dynamic programming techniques, leading to a 20 hours per week time savings.
- Reduced the frequency of chemical cargo contamination by implementing a Java user interface to assist engineers in accurately managing cargo data.
- Applied user-centered design techniques to create a software requirements document providing a base set of requirements for continued product development.

Northrop Grumman - B-2 Defense Management Systems

January 2015 - August 2015

B-2 Display Systems Software Engineer

- Discovered and removed software defects in the Platform Systems Tools C++ source code using the GNU Debugger and Valgrind Memcheck, saving software quality assurance engineers over 30 hours of testing.
- Increased Platform Systems Tool's C++ test coverage from 60% to 68% by implementing over 30 unit tests using the Google Test library.
- Improved the B-2 display system team's API documentation by writing C code snippets demonstrating the intended use and functionality of each method.

Skills

- Languages: C++ (proficient), C (proficient), Java (competent), Python (competent), Bash (competent)
- Testing Tools: Google Test, GNU Debugger, Valgrind Memcheck/Helgrind, Gcov
- Version Control Software: Git, Subversion
- Platforms: GNU/Linux, JIRA, Jenkins CI, Salesforce, Windows 7/10
- Experience performing Agile software development using the Scrum framework.
- Effectively communicate technical specifications and challenges to professionals in non technical domains.
- Enjoy teaching / tutoring others.