Luke C. Stewart

Contact Information

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Security Clearance

Department of Defense **Active Secret**

Education

Auburn University, Auburn, Alabama USA
- B.S., Electrical Engineering, May 2006.

Objective

Electrical Engineering position with hardware and software integration/simulation activities in a dynamic company offering multiple technical and leadership growth opportunities

Summary of Qualifications

- An energetic and self-motivated engineer with a record of successfully leading groups, organizing tasks and designing systems ahead of schedule and under budget
- Effective communicator across cultural, organizational, and engineering disciplinary lines
- Experienced at prioritizing and multitasking to complete large projects
- Team player with strong work ethic; organized & goal oriented
- Hardware: Network Analyzer, Oscilloscope, Signal Generator, Spectrum Analyzer,
- Programming: Assembly, Awk, Basic, Bash, C++, Html, Java, LaTeX, Perl, Python, Sed, Tcl/Tk, Xml
- Applications: CVS, DOORS, Eclipse, Emacs, iTracker, KDE, Linux/Unix platforms, Mathcad, Mathematica, Matlab, Microsoft Office, mySQL, Octave, ORCAD (PSpice), OS X, Purify, Rational Rhapsody, Rational Rose, Solid Edge, Sun Grid Engine, SVN, Valgrind, Vim, VMWare

Professional Experience

Raytheon Company, Woburn, Massachusetts USA

Systems Engineer **July 2008 to present**

- Currently working at MDIOC in Colorado Springs as AN/TPY-2 radar simulation (CRUSHM) support analyst for the TA-10 event.
- Worked on classified defense contract tasks for simulation, modeling, and analysis of Forward Based X-Band - Transportable (FBX-T) and AN/TPY-2 Radar systems.
- Worked on development and maintenance of CRUSHM radar simulation (C++).
- Prepared, compiled, and installed various releases of CRUSHM on-site at customer locations.
- Designed, ahead of schedule and underbudget, a Software Design Document (SDD) by creating an automated documentation generation tool.
- Helped administer and operate a distributed Linux computing cluster built to expedite CRUSHM radar simulation, Monte Carlo analyses, and genetic algorithm studies.
- Gained valuable insight into the procedural approach to designing/engineering a large scale C++simulation product – using UML methodologies – on a timeline for a government customer.
- Represented my company successfully in engineering design, integration, and support activities conducted in the government customer's classified labs on Redstone Arsenal, AL, and MDIOC Schriever AFB, Colorado Springs, CO.
- Interacted professionally with government customers while hosting simulation training classes.

DESE Research, Inc., Huntsville, Alabama USA

Electrical Engineer **June 2006 to July 2008**

- Worked on classified defense contract tasks for simulation, modeling, and analysis of missile systems in a 6 Degrees of Freedom (6DOF) environment as well as TOW Missile Hardware In the Loop (HWIL) simulations lab to develop wireless "sensor to shooter" linkages.
- Gained extremely useful software knowledge and ability to include Python scripting/automation and C++model development.
- Designed, ahead of schedule and underbudget, a Control Actuation System open-loop simulation and analysis toolkit.
- Helped design, construct, implement, and operate a distributed computing cluster built solely from excessed PCs and open source software.
- Represented my company successfully in engineering design activities conducted in the government customer's classified labs on Redstone Arsenal, AL.

Phase IV Systems, Huntsville, Alabama USA

Summer Hire **Summer 2005**

- Supported Army Radar Operations Facility with hands-on operational testing of fielded Army radars (Sentinel Enhanced Target Range and Classification (ETRAC), Full Rate Production Option 5 (FRP5)) and HWIL simulation with injected threat profiles.
- Collected Radar Cross Section (RCS) measurements of various threats for Stryker, HMMWV, and Helicopter mounted Active Protection Systems (APS).

Co-op Student **Summer 2003; Spring, Fall 2004**

- Supported field-testing and radar development for Stryker mounted APS.

Special Activities and Awards

- FarmHouse Fraternity
- Auburn University Honors College
- Auburn University Solar Car Team
- Auburn University Rugby Football Club
- IEEE Member
- Eta Kappa Nu – Xi Chapter
- Dean's List
- BSA Eagle Scout
- Roebuck Eagle Scout Scholarship
- Habitat for Humanity of Madison County
- Member of adult soccer team in community league
- Avid Arduino and iPhone programmer

References available upon request