**Adam Tran**

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**Systems Test Engineer III**

**SUMMARY**

An Electrical Engineer with an Active Secret level and Interim Top Secret level US security clearance and 6 years of specialized experience in SATCOM systems testing within an ESD-compliant environment.

* Highly knowledgeable about the operation, test and troubleshooting of military satellite communication systems.
* Competent in the system level integration, test and verification of software and software requirements through JAMA.
* Strongly experienced in Agile development, JIRA, Unix/Linux operating system, Artifactory and Ansible.
* Good understanding of Bash Shell scripting, MATLAB, C, Python, TCP/IP, MBSE methodology, Cameo Systems Modeler.
* Proficient at test and measurement equipment such as Spectrum Analyzers, Noisecom, signal generators, Vector signal analyzers, oscilloscopes, Fireberd.
* Highly knowledgeable about SATCOM waveforms/protocols, modulation schemes and multiple access schemes such as QPSK, CPM, MIL-STD-188-181/-182/-183/-185.

**WORK EXPERIENCE**

**VIASAT Carlsbad, CA**  
***BFT Systems Integration and Test Engineer*  *June 2023 – November 2023***

* Conducted rigorous regression testing for BFT system, executing 15 distinct test cases through JAMA.
* Support development of test procedures, test reports and test case design and implementation.
* Verified 4 Ansible playbooks on specific RHEL7 hosts, documented outcomes and designed 9 playbooks to validate some functionalities on BFT2 system components.
* Leveraged TMUX on Linux for 3 traffic tests on the BFT2 system.
* Developed a Python script to simplify the login process for BFT2 Linux machines.

***UHF Systems Test Engineer*  *September 2017 – June 2023***

* Established and maintained RF hardware infrastructure, facilitating the work of system testers and software developers.
* Configured the testing environments with RF devices, networking switches, GPS equipment, SATSIM and Viasat’s RT-18XX series of UHF SATCOM radios
* for comprehensive test scenarios and DoD JITC test cases.
* Conducted 20 extensive JITC test procedures, regression testing and verification of over 60 software fixes using RF test equipment to support Productization of Viasat VM300M DSP modules Program.
* Played a key role in the Test team’s success in the VM300M Cryptographic Modernization Program for NAVWAR.
* Assisted 2 NAVWAR testers in the testing and troubleshooting of Viasat’s delivered VM300M boards on their 5kHz DAMA and IW networks at their location in San Diego.
* Conducted the acceptance testing at Australia Government Department of Defense test site and collaborated with Viasat software development team in the US to successfully troubleshoot the major bug in SQL database within Viasat’s UHF network controller software that could potentially disrupt their IW SATCOM network operation.
* Supported Phase 5A UHF Network Control System (NCS) Project for Australian Defense Force (ADF) in testing Viasat’s JTIC-certified VISION Network Management Platform by identifying and documenting 300+ software bugs in JIRA, performing dry runs, verifying software fixes and updating test procedures.
* Resolved a Viasat DOCCT/S issue with FSK mode by updating the C code in the SATSIM card with the new filter coefficients obtained in MATLAB and merging the code change in Perforce.

**UNITED LAUNCH ALLIANCE (ULA) VAFB, CA**  
***Communications Engineer, Intern* *June 2016 – August 2016***

* Analyzed and documented the testing procedures of HT750 and CP200 Motorola hand-held radios.
* Supervised the upgrade of communication link to the Delta IV Solid Motor Building.

**EDUCATION  
  
Master of Science in Electrical Engineering, Communications and Signal Processing emphasis Sept 2014 - Dec 2016**

***California State Polytechnic University (Cal Poly Pomona)* Pomona, CA**   
**Cumulative GPA: 3.9**

**Bachelor of Science in Electronics and Telecommunications Sept 2005 – Sept 2010   
*Posts and Telecommunications Institute of Technology (PTIT)***  **Ho Chi Minh city,** **Vietnam**

**CERTIFICATIONS  
  
Cisco Certified Network Associate (CCNA)   
*Score: 1000/1000***