Clearance: Secret

Zachary H. Duda

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Electrical Engineer with extensive experience in Hardware Integration and Test efforts. Seeking a position that utilizes my technical knowledge, analytical skills, and dedication to hard work to create a challenging environment that will promote personal growth and value for the company.

Professional Experience

Northrop Grumman Mission Systems

Hardware Engineer – Hardware Subsystem Engineering, Antenna Integration & Test

April 2018 – Present

- Assisted with integration and test efforts in a near field antenna range to verify design and performance requirements of an advanced electronic warfare (EW) system for the U.S. Navy
- Performed MATLAB data analysis of RF cable return and insertion loss, power density, antenna gain, etc.
- Presented data analysis to technical leads and program management
- Executed procedural testing in near field range to successfully tune and validate operational parameters of antenna
- Resolved anomalies and dilemmas during equipment integration with test facility
- Characterized performance of near field range equipment to optimize test settings
- Developed bench plans and component inventories for future system production test phases
- Worked with Antenna Lead to process and package collected data for customer presentations
- Mentored new employees on near field range processes and how to conduct all tests in the antenna ranges

Systems Engineer – SEIT, System Integration and Test

July 2017 - April 2018

August 2013 – Present

October 2008 – July 2017

- Constantly interacted with and provided answers to AWACS customers on daily basis through 40 hour tasks
- Troubleshoot returned materials for repair (RMRs) on test tool and create reports to send to the rest of the team
- Conducted several simulations and redesigns of parts and wires to replace DMS parts
- Analyzed failures in T/R modules: determined reasons for high failure rates and means of mitigation
- Conducted MESA 1 Lot Customer Cost Proposal

Technical Skills

- Knowledge of RADAR, RF/Hardware Troubleshooting, Signal Processing, Integration and Test Efforts, Data Analysis
- Software MATLAB, Simulink, LINGO, Tableau, MathCAD
- Test equipment oscilloscope, spectrum analyzer, function generator, PNA, power meter, milliohmeter

Education	
Harrisonburg, Virginia GPA: 3.33 (Cumulative), 3.49 (Major)	
October 2016 – May 2017 May 2016 – August 2016 October 2014 – August 2015 October 2010 – June 2015	
2015 – 2017 evices, surfaces, and skin	
2014 – 2015 y	

Publications

Woodbridge Senior High School Alumni Scholarship Foundation, Volunteer

Knights of Columbus, Volunteer