

CHRISTOPHER C. GREEN

13140 Ashnut Lane
Herndon, VA 20171

Telephone: 480-620-4115
Email: green@eemat.com

SUMMARY

RF Microwave Engineer with experience in design, test, production, research and development, analysis, technical writing, and presentations. Good working knowledge of RF test equipment. MS degree in Electrical Engineering and has strong interests in testing, designing, analyzing, and working with state of the art products.

PROFESSIONAL EXPERIENCE

Orbital Sciences Corporation, Dulles, VA

2010-2013

Principal RF Engineer

Product lead engineer of RF components for GEO satellite TC&R subsystems

- Responsible for RF component procurement and management. Worked closely with program personnel and a major foreign supplier.
- Wrote technical specifications for defining RF component requirements.
- Responsible for technical evaluation of engineering analyses, test procedures, test data, and RF component design.
- Presented to customers at formal design reviews.
- Worked on 7 different GEO satellite programs.

Orbital Sciences Corporation, Chandler, AZ

2003-2010

Principal RF Engineer

Provided RF engineering support of rocket communication systems. Worked as a contractor from 2003-2007 through Superior Technical Resources

- Supported several program missions within the EE RF Systems group by performing classified link margin and intermodulation analyses, creating engineering drawings, writing RF system summary reports, performing RF system level testing on vehicles, and handling other required RF related engineering tasks for the programs.
- Wrote and modified acceptance test procedures.
- Performed acceptance level testing of RF system level components such as transmitters, antennas, feed networks, LNA's, combiners, filters, and amplifiers.
- Worked in the field performing test and evaluation of interference issues for RF systems.
- Presented at the Orbital academy on RF components related to telemetry & communications.
- Visited suppliers for non-conformance issues.

Christopher Green & Associates, Reno, NV**2002-2007****RF Microwave Engineering Consultant**

Provided engineering services to Emhiser Research, Inc. and Advanced Microwave Products, Inc. for the production of amplifiers and transmitters.

- Prepared military products for delivery through inspection, troubleshooting, repair, tuning, and extensive RF acceptance testing. Made engineering recommendations for product improvements.
- Supported multi-million dollar contracts in a very small company setting.
- RF test engineer support for a qualification campaign of a new telemetry transmitter design.

Motorola, Inc., Tempe, AZ**2000-2002****Senior Electrical Engineer**

Contributed test expertise in the development of Bluetooth modules.

- Researched, wrote procedures, and implemented Bluetooth tests for module development that resulted in improved product design.
- Performed wafer probe measurements and data analysis of passive components in embedded substrates. Wrote program that extracted element parameter values from measurement data.
- Wrote HP VEE program for data acquisition of TDR measurements.
- Edited technical publications and presentations.

Ball Aerospace and Technologies Corporation, Westminster, CO**1999-2000****RF Microwave Engineer**

Contributed test expertise to classified projects that required a security clearance.

- Performed RF tests using anechoic chambers and network analyzers for military specified low observable antennas.
- Edited acceptance test procedures.
- Designed and constructed baluns using a Quick Circuit milling machine.
- Designed and constructed antennas for circular polarization qualification tests.
- Used AutoCAD to construct artwork for antenna layouts.

Sandia National Laboratories, Albuquerque, NM**1996-1998****Student Intern Professional**

Provided lab support for routine and special projects.

- Designed a test fixture and a microstrip to V-band waveguide transition using HFSS for an IC reliability chamber.
- Designed a stripline test fixture used to extract dielectric material parameters.
- Performed RF measurements on diode detectors.
- Performed on wafer probe testing of high-speed RF devices that supported process research.

The University of Arizona, Tucson, AZ**1995-1996****Graduate Teaching Assistant – Department of Electrical and Computer Engineering**

Conducted three microwave measurement laboratory sections and assisted students with performing experiments using RF test equipment.

EDUCATION

M.S., Electrical Engineering, The University of Arizona, Tucson, AZ
(Eta Kappa Nu Association)

B.S., Engineering Physics, The University of Arizona, Tucson, AZ

Antenna Theory and Design, University of Colorado, Boulder, CO

LICENSE

FCC Licensed Amateur Radio Operator (Extra Class)

PUBLICATIONS

C.C. Green, J.M. Seligman, J.L. Prince, and K.L. Virga,
“Characterization of Frequency Dependent Dielectric Packaging Media Using Differential and Multiple Reflection Techniques on a Precision Stripline Test Structure,”
7th topical meeting on Electrical Performance of Electronic Packaging,
West Point, NY (Oct. 1998), pp. 69-72.

C.C. Green, C.L. Hernandez, F.M. Hosking, D. Robinson, B. Rutherford, and F. Uribe,
“Technique for Measuring Hybrid Electronic Component Reliability,”
Sandia Report SAND98-2421 (Jan 1999).

C.C. Green, J.M. Seligman, J.L. Prince, and K.L. Virga,
“Electrical Characterization of Integrated Circuit Molding Compound,” IEEE Transactions on
Advanced Packaging, Vol. 22, No. 3 (Aug. 1999), pp. 337-342.

PATENT

Method and Apparatus for Measuring and Characterizing the Frequency Dependent Electrical Properties of Dielectric Materials. U.S. Patent No. 6,472,885 Issued October 29, 2002.