



Education:

U. of Tennessee, PhD candidate, 2014 to Present

U. of Ohio/Dayton, M.S. Electrical Engr., Highest Honors, 1985

U. of Tennessee, B.S. Electrical Engr., Honors, 1978

Training:

2008 Joint Forces Staff College, Norfolk, VA

2006 NATO Senior Staff Officer School, Washington D.C.

2005 Reserve Components National Security Course, Wash, D.C.

2001 Air War College, Air University (AU), Maxwell AFB, AL

1987 Air Command and Staff College, AU, Maxwell AFB, AL

1984 Squadron Officer School, AU, Maxwell AFB, AL

1983 Marine Command and Staff College, Quantico, VA



Jake Carter

Research and Professional Experience:

Oak Ridge National Laboratory

Oak Ridge, Tennessee

R&D Project Specialist

Electronics and Embedded Systems

Nuclear Material Detection & Characterization

Staff research and development, analog and digital electronics. Program management.

Air Force Research Laboratory

Wright-Patterson Air Force Base, Ohio

Senior Manager, \$195 million science and technology air vehicles development

Research and development consultant, unmanned aircraft electronic systems

National Aeronautics and Space Administration

Langley Research and Development Center, Virginia

Staff research and development, National Aerospace Plane control and display systems

Aerospace Corporation

Los Angeles Air Force Station, California

Staff research and development, automated satellite targeting calibration

International Business Machines

Fishkill Semiconductor Development Facility, New York

Staff research and development, Large Scale Memory Development

Publications:

- *The Imaging Detector Subsystem Electronics of the Fieldable Nuclear Materials Identification System (FNMIS), 2015 ORNL*
- *Recent Fast Neutron Imaging Measurements with the Fieldable Nuclear materials Identification System, 2014 ORNL/UT*
- *Nuclear Energy – Neutron Generators, PhD Qualifier, 2014 ORNL/UT*
- *Carbon Tariff Integration in Existing Trade Agreements, US-China, 2014 UT*
- *Surgically Implanted Weapons: Eliminating the Threat, 2012 ORNL*
- *Teaching Energy Management Controllers to Learn, 2010 ORNL*
- *Commercial Neutron Sources and DOE Research, 2009 ORNL*
- *Reconfigurable Avionics Modeling and Simulation System, 2004 USAF*
- *Aircraft Targeting Radar Transformation Theory and Application, 1997 USAF*
- *Voice Recognition Authentication, (Thesis) 1985 University of Dayton*
- *Mistral, High Density Semiconductor Memory, 1978 IBM*

Relevant Additional Unpublished Document

“Design, coordination and execution of Titan, Poseidon, Trident and Air Launched Cruise Missile nuclear delivery systems test and evaluation including arming, fusing and firing.”
1981 USAF