Steven M. Bolen, Ph.D.

18 APR 2023 ______(HC PAB)

Executive Profile

Community Leadership: Advocate for public safety outreach and people with cognitive developmental disabilities and mental health issues.

Subject Matter Technical Expertise:

Conducted novel research and engineering development to advance U.S. national security goals and human spaceflight avionics systems.

Executive Management Experience: Led interdisciplinary civilian and military teams, set policies, and defended strategic direction across global enterprises for the U.S. government.

Education/Degrees Earned

Ph.D. Electrical Engineering

- Polarimetric radar atmospheric remote sensing
- Statistical signals processing
- Electromagnetic field theory

M.S. Electrical Engineering

- Control systems theory
- Communications and signals processing

B.S. Electrical Engineering

(Magna cum Laude)

Community Engagement (volunteer/non-paid)

•	U.S. Coast Guard Auxiliary (Vice Flotilla Commander; 2022-23)	2020-present
•	Howard Co. National Alliance on Mental Illness (Exec Board; 2021-22)	2020-present
•	Howard Co. Autism Society (local chapter member)	2020-present
•	Howard Co. Police Dept. Citizens Advisory Council (Vice-Chair; 2022)	2019-present
•	Howard Co. Commission: Vets & Military Families (Secretary; 2019-22)	2019-2022
•	Howard Co. Public School System, Judge: 5 th Grade Simulated	2018-present
	Congressional Hearings, National History Day, and Unheard Perspectives	
•	Howard Co. Executive Public Safety Subcommittee Transition Team	2018

Professional Work (paid work)

Central Intelligence Agency

2003-17

Supported counter-terrorism, counter-proliferation, and special military operations' activities.

National Aeronautics and Space Administration

1993-2003

Human Spaceflight Center, Houston, TX

 Researcher/Technical Manager/Systems Engineer: Space Shuttle Orbiter (SSO) and International Space Station Communications & Tracking; and other avionics' systems programs.

U. S. Department of the Air Force

1988-91

Rome Air Development Center, Griffiss AFB, NY

 Program Manager/Engineer/Contract Officer Technical Representative: Worked across multiple government agencies to develop airborne command, control, communications, intelligence, surveillance, and reconnaissance (C3ISR) systems.

Other Professional Experience

• IEEE Conference Committee Technical Paper Reviewer: IEEE Radar Conference, Verona, NY.

IEEE Conference Committee Technical Paper Reviewer: IEEE

2006

• IEEE Conference Committee Co-Chair, Tracking: IEEE
International Reder Conference Arlington, VA

2005

International Radar Conference, Arlington, VA.

2005

International Radar Conference, Arlington, VA.

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• IEEE Invited Speaker:

2002

S. Bolen, V. Chandrasekar and C. Sham, "Estimation of Spaceborne Ku-band Signals from Ground Radar S-band Polarimetric Measurements for use in Radar Meteorology," IEEE Galveston Bay Section.

• NASA TRMM Science Team Meeting - Invited Speaker (2 papers):

2000

- S. Bolen and V. Chandrasekar, "Method for Comparing Ground Radar (GR) with TRMM Precipitation Radar (PR) Observations," Tropical Rainfall Measuring Mission (TRMM) Science Team Meeting, Salt Lake City, Utah, May 2000.
- S. Bolen and V. Chandrasekar, "TRMM Precipitation Radar (PR) & SPOL Inter-Comparisons," Tropical Rainfall Measuring Mission (TRMM) Science Team Meeting, Salt Lake City, Utah, May 2000.

• TRMM Visiting Scientist

1999

Kwajalein Island, Republic of the Marshall Islands

TRMM Kwajalein (KWJAEX) Field Campaign (Joint NASA-NCAR-NOAA);
 collected and analyzed radar field campaign data.

1998

Ji-Parana, Brazil

 TRMM Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) Field Campaign (Joint NASA-NCAR-NOAA); collected and analyzed radar field campaign data.

Professional Organizations

- Institute of Electrical and Electronic Engineers (IEEE) (member since 1984)
- Tau Beta Pi Engineering Honor Society alumnus, Michigan Eta Chapter
- Eta Kappa Nu Electrical Engineering Honor Society alumnus & former secretary, Theta Upsilon Chi

Awards

• U.S. Coast Guard Auxiliary

Flotilla Auxiliarist of the Year, 2022; Department of Homeland Security Outstanding Unit Award: 2022.

Howard County Commission on Veterans and Military Families

Three-year service award, 2022.

• Howard County Police Department Citizens' Advisory Council

Three-year service award, 2022.

• Central Intelligence Agency (CIA)

CIA Exceptional Performance: 2014, 2012, 2011, 2010, 2008 (2), 2007 (2), 2006, 2005 (2), 2004, and 2003.

• National Reconnaissance Office (NRO)

NRO Sentinel Award, 2008; NRO Director's Circle Award, 2008; NRO Directorate Employee of the Year (nominee), 2006; NRO Director's Team Award of the Quarter (Q2), 2006; NRO Meritorious Service Award (Tier 3), 2006; and, NRO Meritorious Service Award (Tier 2), 2006.

• National Aeronautics and Space Administration (NASA)

NASA Time-Off Award (MAC LOS blockage/RF signal attenuation research), 2002; NASA Space Act Board Award, 2002; NASA Performance Award, 2002; NASA Tech Brief Award, 2001; NASA Go-the-Extra Mile Award, 2001; NASA Performance Award, 2000; NASA JSC Team Award for Excellence (TransHab Program Office), 2000; and NASA Go-the-Extra Mile Award (TransHab Program Office), 1998.

• U.S. Department of the Air Force

U.S. Department of the Air Force Performance Award: 1990 and 1989.

• Lawrence Technological University

Awarded four-year tuition scholarship; Dean's List (6 quarters).

• United States Air Force Academy

Dean's List, Commandant's List, and Superintendent's List (first semester).