



BIOGRAPHY

UNITED STATES AIR FORCE

711 HPW/EN

Wright-Patterson Air Force Base, Ohio

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Dr. Mark M. Derriso

Dr. Mark M. Derriso serves as the Chief Engineer of the 711th Human Performance Wing, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. He is the engineering technical authority for over 1,370 personnel, 70 occupational specialties and \$350M+ in combined science & technical and defense health program funding. Dr. Derriso provides advice and counsel to the 711 HPW Commander, mission leaders, chief scientist, senior staff, and other wing personnel on systems engineering and program management (SEPM). He ensures effective SEPM is executed throughout the organization to enable efficient operations and successful product transition. Additionally, he develops and implements policies, processes and best practices to ensure technical conduct, progress, performance, quality assurance, configuration management, technology transition planning, and results are executed in compliance with established requirements.



Dr. Derriso is also an accomplished researcher and engineer with 80+ technical publications and extensive experience developing, conducting, coordinating, directing and managing research and development programs for the United States Air Force. He has expertise in the areas of material/structural characterization, health monitoring systems, automatic controls, autonomous systems, artificial intelligence, and human performance. Dr. Derriso is particularly experienced in creating innovative solutions using multidisciplinary and interdisciplinary approaches requiring integration of aerospace and human systems using advanced systems engineering principles and methods.

Dr. Derriso joined federal service in 1988 as an electronics technician at the Air Force Institute of Technology after receiving his associate degree from Kentucky State University. Since then, he's earned advanced degrees in engineering and has held various positions in technical leadership across the Air Force Research Laboratory.

EDUCATION:

1988 Associate of Applied Science in Electronics Technology, Kentucky State University, Frankfort, KY.

1999 Bachelor of Science in Electrical Engineering, Wright State University, Fairborn, Ohio.

2004 Masters of Science in Mechanical Engineering, University of Dayton, Dayton, Ohio.

2008 Graduate Certificate in Systems Engineering, Missouri University of S&T, Rolla, Missouri.

2013 Doctor of Philosophy in Electrical Engineering, Air Force Institute of Technology, WPAFB, Ohio.

2016 Executive Education Certificate in Leadership, Northwestern University, Evanston, Illinois.

2019 Leadership Academy for Scientists and Engineers and Researchers, MIT, Cambridge, MA

ASSIGNMENTS:

1. November 1988 – August 1997, Electronics Technician, Department of Aeronautics and Astronautics, Air Force Institute of Technology, Wright-Patterson AFB, OH.
2. Aug 1997 – January 2000, Electronics Engineer, Thermal Structures Branch, Air Vehicles Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH.
3. January 2000 - January 2004, Laboratory Manager, Structural Integrity Branch, Air Vehicles Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH.
4. January 2004 – April 2010, Team Lead, Advanced Structural Concept Branch, Air Vehicles Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH.
5. April 2010 – October 2012, Technical Advisor, Structural Integration Branch, Air Vehicles Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH.
6. October 2012 – September 2013, Team Lead, Control Systems Integration Branch, Aerospace Systems Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH.
7. September 2013 – June 2018, Technical Advisor, Warfighter Interface Division, 711 Human Performance Wing, Wright-Patterson AFB, OH.
8. June 2018 – Present, Directorate Lead Engineer, Airman Systems Directorate, 711 Human Performance Wing, Wright-Patterson AFB, OH.
9. January 2019 – Present, Chief Engineer, 711 Human Performance Wing, Air Force Research Laboratory, Wright-Patterson AFB, OH.

AWARDS AND HONORS:

Machinery Failure Prevention Technology (MFPT) International Society, Technical Fellow, 2018
MFPT International Society, The Jack Frarey Award for Excellence, 2016
Black Engineer of the Year Awards, Science Spectrum Trailblazers Award, 2012
AFRL, Category III Civilian of the 3rd Quarter, 2010
Impact Technologies, Prognosis and Health Management Award, 2007
Black Engineer of the Year Awards, Modern-Day Technology Leader, 2005
International Journal of Structural Health Monitoring, Hans-Juergen Schmidt Award, 2005
AIAA Cincinnati/Dayton, Technical Manager of the Year, 2003
AFRL/Air Vehicles Directorate, Technical/Scientific Manager of the Year, 2003

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS:

International Council on Systems Engineering, Professional Member (Mar 2019 – Present)
America Society of Mechanical Engineering, Professional Member (2016 – Present)
Journal of NDE, Diagnostics and Prognostics of Engineering Systems, Associate Editor (2016 – 2021)
Machinery Failure Prevention Technology Society, Executive Board Member (2016 – Present)
America Institute of Aeronautics and Astronautics, Professional Member (2003 – Present)
International Journal of Structural Health Monitoring, Associate Editor (2002 – 2022)
International Journal of Structural Health Monitoring, Board Member (2002 – 2022)

PROFESSIONAL CERTIFICATIONS:

Level III SPRDE Science and Technology Manager, 2012.
Level III SPRDE Systems Engineering, 2012
Level I Program Manager, 2003