

DANIEL R. MILLMAN

ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Over 35 years of experience in engineering, operations, flight test, acquisition, and hypersonic vehicle design and flight testing. International scholar with papers in computational fluid dynamics, aero-elasticity, stochastic methods, and flight test results. US Air Force (USAF) Test Pilot School graduate; served in the USAF as a B-52H pilot, aircraft commander, and instructor pilot. Stood up the Hypersonic Combined Test Force at Edwards Air Force Base (AFB) and launched the first X-51A. As a command pilot, logged over 3,600 hours in 35 aircraft types. Recognized subject matter expert in the field of hypersonic flight test. Lt. Colonel, USAF, (Retired) and industry executive.

PRINCIPAL AREAS OF EXPERTISE

Hypersonic Vehicle Design
Hypersonic Ground
& Flight Test

Computational Fluid Dynamics
Flight Test
DoD Acquisition

Aerothermodynamics
Program Management
Customer Relations

WORK HISTORY

Associate | Dayton Aerospace, Inc.
2024-present, *Dayton, OH*

Supports government and industry partners in program management, design, and testing of hypersonic vehicles. Applies his depth of experience in aerothermodynamics and DoD acquisition to assist clients.

Chief Executive Officer | HyST Consulting
2023-present, *Kingwood, TX*

Provides business development opportunities for industry clients. Identifies and advises on technologies that can transition to hypersonic systems. Advises government and academia on flight test opportunities.

Chief Technology Officer | Stratolaunch
2020-2023, *Mojave, CA*

Final technical authority for one-of-a-kind launch platform and hypersonic testbed. Managed business development for a start-up with zero contracts to over \$100M in sales.

Chief Engineer & Technical Fellow, Hypersonics | Booz Allen Hamilton (BAH)
2010-2020, *Houston, TX*

Secured various technical patents, including a new guidance system for reentry vehicles using a flush air data system that converts pressures on the nose of the vehicle to air data required for navigation. Developed a conceptual design of a hypersonic glide body for the Air Force Research Laboratory (AFRL). Conceived and received internal funding to stand up a firm-wide cloud-based high-performance platform for computing and algorithm development with physics-based simulation software for Computational Fluid Dynamics and Finite Element Analysis. Designed a Direct Attitude Control System autopilot for an advanced agile missile concept for the Air Force Life Cycle Management Center (AFLCMC) Advanced Weapons Branch. Developed missile conceptual design methodologies for the AFLCMC Advanced Concepts Branch. Deputy Program Manager for \$30M Advanced Planning Assessment Contract in support of National Aeronautics and Space Administration (NASA) Headquarters and its different centers



DAYTON AEROSPACE

4141 Colonel Glenn Hwy.
Suite 252
Dayton, Ohio 45431

P: (937) 426.4300

L: www.linkedin.com/in/daniel-millman-8a447820

EDUCATION

PhD, Aerospace Engineering
Air Force Institute of Technology
(AFIT)

MS, Astronautics
The George Washington
University

BS, Mechanical Engineering
Rice University

Air Command & Staff College
Squadron Officer School
USAF Test Pilot School

CERTIFICATIONS

Acquisition Level 3 for Test and
Evaluation
Defense Air University (DAU)

WORK HISTORY (CONT'D)

Developmental and Operational Test Pilot

2008-2010, Barksdale AFB, LA

Flew multiple weapons programs at Edwards AFB and Barksdale AFB. Planned and implemented the first release of the X-51A Scramjet Engine Demonstrator from a B-52H; the X-51A set a world record for scramjet engine performance

Director | Hypersonic Combined Test Force

2006-2008, Edwards AFB, CA

Stood up the Hypersonic CTF. Programs included X-37A, X-37B, X-51A, and Blackswift.

Prior to 2006

- Instructor, Test Pilot School, *Edwards AFB, CA*
- PhD Program, Air Force Institute of Technology, *WPAFB, OH*
- B-52H/B-1B Test Pilot, *Edwards AFB, CA*
- USAF Test Pilot School, *Edwards AFB, CA*
- Aircraft Commander/Instructor Pilot, B-52H, *Barksdale AFB, LA*
- Pilot, B-52H, *Minot AFB, ND*
- Undergraduate Pilot Training, *Laughlin AFB, TX*
- Graduate Research Scholar Assistant, Space Systems Division, Aerothermodynamics Branch, NASA, *Langley Research Center, VA*

DAYTON AEROSPACE

4141 Colonel Glenn Hwy.
Suite 252

Dayton, Ohio 45431

www.daytonaero.com