

David Alfred Hardy

Albuquerque, NM

Country of citizenship: United States

Education:

1972 B.S. Magna Cum Laude with Honors in Physics, Duke University, Durham, North Carolina
1974 M.S. Space Physics and Astronomy, Rice University, Houston, Texas
1976 Ph.D. Space Physics and Astronomy, Rice University, Houston, Texas
2001 M.S. Strategic Studies, Air War College, Maxwell Air Force Base, Alabama (in residence)

Positions Held:

09/19 – present Senior Scientist, Apogee Engineering LLC.
04/18 – present Sole Proprietor, DhardyConsulting LLC
03/18 – 09/19 Senior Scientist, The Space Dynamics Laboratory of Utah State University
10/15 – 12/17 Associate Deputy Undersecretary of the AF (Space); Deputy Director Principal DoD Space Advisor Staff, Headquarter AF
10/10 – 10/15 Director, Directed Energy Directorate, Air Force Research Laboratory
09/06 – 10/10 Associate Director for Space Technology, Air Force Research Laboratory
01/06 – 09/06 Chief Scientist, Space Vehicles Directorate, Air Force Research Laboratory
09/02 – 01/06 Senior Scientist, Space Experiments, Space Vehicles Directorate, Air Force Research Laboratory
09/01 - 09/02 Technical Director, Directorate for Requirements, HQ Air Force Space Command
07/01 - 09/01 Technical Advisor, Space Technologies Division, Space Vehicles Directorate, Air Force Research Laboratory
01/01 - 07/01 Acting Deputy Director, Space Vehicles Directorate, Air Force Research Laboratory
06/00 - 01/01 Chief, Battlespace Environment Division, Space Vehicles Directorate, Air Force Research Laboratory
08/99 - 06/00 Student, Air War College, Maxwell AFB, Alabama
10/97 - 08/99 Chief, Battlespace Environment Division, Space Vehicles Directorate, Air Force Research Laboratory
06/96 - 10/97 Chief, Space Effects Division, Air Force Phillips Laboratory
07/93 - 06/96 Chief, Space Plasmas and Fields Branch, Space Physics Division, Geophysics Directorate, Air Force Phillips Laboratory
04/92 - 07/93 Program Element Manager for PE63410F Space Systems Interaction Technology, Geophysics Directorate, Air Force Phillips Laboratory
06/89 - 04/92 Chief, Space Systems Technology Branch, Space Physics Division, Geophysics Directorate, Air Force Phillips Laboratory
08/76 - 06/89 Planetary Space Scientist, Space Particles Environment Branch, Space Physics Division, Air Force Geophysics Laboratory
05/76 – 08/76 Research Associate, Department of Space Physics and Astronomy, Rice University, Houston, Texas

Work Experience:

Current Duties:

9/19 – present Senior Scientist Apogee Engineering LLC

Provides strategic and programmatic advice and support to AFRL, USD(R&E) and HQ USSF on space

issues. Key support in developing USD(R&E) Space S&T framework to guide DoD investment, the HQ USSF Futures Process to examine mid- and long-term trends and challenges for the Space Force and required force structure and the execution of the reports from the series of Status of the US Space Industrial Base Conferences.

04/17 – present Sole Proprietor, DhardyConsulting LLC

Provides strategic and programmatic advice and support to industry on space capabilities and development for both commercial, civil, and commercial applications.

Experience:

03/18-9/19 Senior Staff Member The Space Dynamics Laboratory Utah State University

Provided practical and strategic support to the leadership of the Space Dynamics Laboratory on space issues including present and future work on the development and use of small satellites for military, civil commercial applications, space sensor developments and space sensor data exploitation, space system software, and space systems applications to missile defense needs.

10/15-12/17 Associate Deputy Undersecretary of the AF (Space) and Deputy Director of the Principal DoD Space Advisor Staff, Pentagon, Arlington, VA (SES Tier 2)

Led the Principal DoD Space Advisor (PDSA)/Deputy Under Secretary of the Air Force (Space) staff to provide support at DoD & AF on space planning, program assessment, architectural assessment, oversight of the Space Virtual Major Force program, policy & strategy, issue integration, & increased cooperation of DoD, civil, commercial, Intelligence, & international space communities. Aggressively completed key congressionally and DEPSECDEF directed report on creation of the US Space Force.

10/10 – 10/15 Director, Directed Energy Directorate, Air Force Research Laboratory, Kirtland AFB, NM (SES Tier 1)

Led the Air Force's and the nation's premier directed energy science and technology organization. Directed the vast range of science and technology programs required for the development of lasers, high-powered electromagnetic, and ground-based, optical observatory systems required to meet critical weapons, communication, reconnaissance needs and to meet key space superiority needs for space threat detection, track, characterization, and defense. Responsible for approximately 900 military and civilian scientists, engineers, contractors, and support personnel. Planned and executed an annual budget of \$320M.

09/06 –10/10 Associate Director for Space Technology, Air Force Research Laboratory, Kirtland AFB, NM (SES Tier1)

Responsible to the AFRL Commander for the oversight of all ~\$400M space science and technology investments, as well as for the senior civilian management of the Space Vehicles Directorate's science and technology portfolio. In these capacities, leads the AFRL's efforts across the full range of existing and emerging space technologies needed to support present and future Air Force, as well as Department of Defense systems.

01/06- 09/06 Chief Scientist, Space Vehicles Directorate, Air Force Research Laboratory, Kirtland AFB, NM (ST)

Provided scientific and technical direction for the Space Vehicle Directorate S&T portfolio. Identified research gaps and new initiatives within the portfolio towards aligning the portfolio to meet user needs.

09/02 – 01/06 Senior Scientist, Space Experiments, Space Vehicles Directorate, Air Force Research Laboratory, Kirtland AFB, NM (ST)

Provided scientific and technical direction and leadership in the development of space vehicle technologies with special emphasis towards the development of critical and comprehensive space experiments. Responsible for the TacSat series of satellites.

09/01 - 09/02 Technical Director, Directorate for Requirements, HQ Air Force Space Command, Peterson AFB, Co (DRIV)

Senior technical advisor to the Directorate. Provided technical advice and direction across the mission area of Force Enhancement, Space Support, Space Control and Force Projection to the director, the division chiefs and action officers within the directorate. A direct report to the general officer in charge of requirements. asked to review the technical content of all AoA's and provide technical direction as required. Was the technical lead for the Space Based Radar and Responsive Space Lift AoAs. Co-chaired the Technical Advisory Group with AC2ISRC on next generation air and space tactical surveillance systems.

Other Qualifications:

2017 Exceptional Civilian Career Service Award

2017 Outstanding Civilian Career Service Award

2014 Civilian Meritorious Service Medal

2012 Level III Certified Acquisition Professional, System Planning, Research, Development and Engineering

2011 Civilian Meritorious Service Medal

2006 Presidential Meritorious Senior Professional Award

2005 AFRL Fellow

1994 Air Force Office of Scientific Research Star Team Leader

1994 Science and Engineering Award for Exploratory and Advanced Technology Development

1990 U. S. Air Force Research and Development Award

1980 Meritorious Service Medal, United States Air Force

Member of the Acquisition Corp; 20 Years of Acquisition Experience