

PROFESSIONAL EXPERIENCE

LOCKHEED MARTIN SPACE

2019-Current

Vice President Advanced Program Development Space (Denver, CO)

2019-Current

- Leads the Advanced Program Development function across a ~\$12B space market leader
- Advanced Programs works across the space enterprise to deliver on commitments for innovation and growth
- Leads a Profit and Loss center (P&L) of cross Line of Business demonstration programs and customer directed research and development (CRAD). Will bid over \$1B in contracts in 2020
- Leads a team of 6 Vice Presidents and 5 Directors responsible for growth in the space domain
- Chairs the strategy and investment council of cross functional executives which is responsible for internal research and development (IR&D) and alignment with strategy
- Leads the creation of the space mission roadmaps that drive the future of the space business
- Assists the Advanced Technology Center in their capture of CRAD and new business



NORTHROP GRUMMAN

2007-2019

Sector Vice President Business Development and Strategy (Herndon, VA)

2015-2019

- Led the business development, strategy, and global relations organizations for a ~\$5B segment of business. Member of the Executive Leadership Team responsible for new business capture, business strategy and identifying profitable business opportunities in both domestic and international markets through a formation of trusted partnerships
- Responsible for long term strategy of the organization (long range strategic plan, strategic investments, mergers and acquisitions, near term organic investments) and all global customer and government relations for the Technology Services
- Developed and implementing a strategic pivot, transforming Technology Services business to a double digit margins
- Leader who was engaged in a variety of strategic captures (>\$10B) including space systems, missiles systems, and aircraft.
- EXCOM member of the Strategic Action Council, Strike Business Focus Area and the Missile Defense Strategy Group
- Enterprise lead for the Software Sustainment Strategy group
- Supported large Mergers and Acquisition activity in the space and missiles arena (>\$5B)
- Global Relations (customer and government relations) lead for business in US, Australia, Europe, Saudi Arabia, Japan and Korea.

Senior Corporate Director-Advanced Concepts (Falls Church, VA)

2011-2015

- Director of Advanced Concepts in the Northrop Grumman Corporate Analysis Center. Strategy lead for corporate priority wins within Northrop Grumman and advocacy lead for aircraft and spacecraft programs.
- Strategy lead for large (>\$50B in revenue) advocacy efforts. Charged with strategy, advocacy products and briefing senior leadership in the company, the media, and external policy makers on the importance of the program
- Strategy lead for Global Hawk advocacy. Charged with messages and briefing Congress on the importance of Global Hawk program. Activity resulted in Global Hawk program restoration and potentially >\$4B in restored revenue over the next 5 years.
- Led advocacy and strategy efforts for priority captures and programs from space systems, aircraft, missile defense, strategic missile systems, cyber systems, and command and control systems. Efforts resulted in multiple program captures and protects.
- Participated in multiple Office of the Secretary of Defense (OSD) Net Assessment Wargames
- Prepared and briefed Congressional staff, national media, a wide variety of think tanks, and military and civilian customers

Senior Manager- Space and Missile Systems (Rosslyn, VA)

2010-2011

- Senior Analyst in the Northrop Grumman Corporate Analysis Center. Primary area of responsibility is strategic classified space systems. Also supported offensive and defensive missile systems. Engaged in multiple strategic capture efforts

Systems Engineer - Future Technical Leader (Rosslyn, VA)

2009-2010

- Rotational leadership program: Third rotation. Working in Washington operations office in business development group.
- Conducted operational analysis in support of a variety of Aerospace Systems programs including classified space systems, KC-X Tanker, JSTARS, Ground Based Missile Defense, Unmanned Combat Air System, Ballistic Missile Defense and the ICBM fleet.

Systems Engineer Space Technology - Future Technical Leader (Huntsville, AL)

2008-2009

- Rotational leadership program: Second rotation. Worked in the program management office of the Kinetic Energy Interceptor (KEI) program. Assisted the program manager and chief engineer in assessing technical analysis leading to a planned first flight.

Chief Engineer Mission Systems - Future Technical Leader (San Bernardino, CA) 2007-2008

- Rotational leadership program: First rotation. Chief engineer in the program management office of the conventional strike missile program. Provided technical leadership for a variety of hypersonic glide vehicle and missile design.

PROFESSIONAL SERVICES COUNCIL

Board of Directors

2016-2019

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

Responsible Engineer for Mission Segment Simulators (Washington, DC)

2005

- Assessed progress of different Mission Segment Simulators for NASA's Exploration Systems Architecture Study. Worked with NASA Centers to solve both technical and managerial problems associated with the mission segment simulators.

TAURI GROUP

Consultant (Washington, DC)

2005

- Conducted conceptual for lunar exploration. Included engineering assessment of challenges associated with manned launch on both Shuttle derived (Ares I) and Evolved Expendable (EELV) derived launch vehicles. design studies of launch vehicles

LOCKHEED MARTIN SPACE & STRATEGIC MISSILES

System Analysis & Orbital Space Plane Designer (Denver, CO)

2003

- Contributed to different aspects of the Orbital Space Plane (OSP) design, including: launch vehicle trajectory optimization (POST3D), orbital maneuvers, wind tunnel data parsing, and conceptual OSP design.

AIR FORCE RESEARCH LABORATORY

Scientific Apprentice (Rome, NY)

1998-2002

- Created a Java based software to search through the JavaSpaces and find the appropriate weather cube for a target given in the Air Tasking Order. Created Java architecture to be used with Air Force targeting software for Weapons of Mass Destruction (WMD).
- Researched Micro Electrical Mechanical (MEMS) devices, created a world-class automated testbed for MEMS resonators.
- Contributions led to a two scientific notable achievement given by the Air Force Research Laboratory.

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Doctor of Philosophy - Aerospace Engineering

- Space Systems Design Laboratory; Advisor: Dr. Alan Wilhite, Sponsor NASA Marshall
- Ph.D. Thesis - "An Innovative Method for Allocating Cost and Reliability in a Lunar Exploration Architecture"
- GPA: 3.8

Master of Science - Aerospace Engineering

- Hypersonics – Air breathing hypersonic vehicle design
- Space Systems Design Laboratory; Advisor: Dr. John Olds
- GPA: 3.9

Clarkson University

Potsdam, NY

- *Dual Major - Bachelor of Science: Aeronautical Engineering; Bachelor of Science: Physics - Minor: Mathematics*
- GPA: 4.0 - Presidential Scholar

AWARDS & HONORS

- National Science Foundation (NSF) Fellowship
 - NASA Group Achievement Award
 - Two Scientific Notable Achievements given by the Air Force Research Laboratory
 - Northrop Grumman Future Technology Leader
 - Senior Executive on Multiple Multi-Billion Dollar Captures
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PUBLICATIONS

- Wilhite, A. Young, D, “A Methodology for Achieving Optimal Reliability and Cost in a Lunar Architecture.” AIAA Space 2009 Conference and Exposition, Pasadena, CA, Sept 2009.
 - Thompson, R., Krevor, Z., Young, D. and Wilhite, A.,”A Reduced Order Lunar Lander Model for Rapid Architecture Analysis,” AIAA Modeling and Simulation Technologies Conference and Exhibit, Hilton Head, SC, Aug 2007.
 - Young, David, Wilhite, A., “A Resource Allocation Method for Achieving Optimal Reliability in a Lunar Architecture,” 48th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, Materials, and Multi Disciplinary Optimization Conference, Honolulu, Hawaii, Apr. 23-26, 2007
 - Young, David, Kokan, T., Wilhite, A., et. al., “Lazarus: A SSTO Hypersonic Vehicle Concept Utilizing RBCC and HEDM Propulsion Technologies,” 14th AIAA/AHI Space Planes and Hypersonic Systems and Technologies Conference. Canberra, Australia. November 2006.
 - Young, David, Wilhite, A., “A Method for Allocating Cost and Reliability in a Lunar Exploration Architecture,” 57th Annual International Astronautical Congress, Valencia, Spain. October 2-6, 2006.
 - Young, David, Wilhite, A, et. Al. “Crew Launch Vehicle Independent Performance Evaluation,” 1st Annual Space Systems Engineering Conference, Atlanta, GA. November 8-10, 2005.
 - Young, David, Olds, J, et. al., “Artemis: A Reusable Excursion Vehicle Concept for Lunar Exploration,” AIAA Joint Propulsion Conference, Tucson, AZ. July 8-10, 2005.
 - Hutchinson, V., Young, D. et. al.,” Tempest: Crew Exploration Vehicle Concept,” AIAA Joint Propulsion Conference, Tucson, AZ. July 8-10, 2005.
 - Young, David, Olds, J., “Responsive Access Small Cargo Affordable Launch (RASCAL) Independent Performance Evaluation,” AIAA International Hypersonics Conference, Capua, Italy. May 13-20, 2005.
 - Young, David, Olds, J, et. al., “Centurion: A Heavy Lift Launch Vehicle Family for Cis-lunar Exploration,” AIAA Joint Propulsion Conference, Ft. Lauderdale, Fl. July 11-14 2004.
 - Young, D , Olds, J., et. al., "Chimera- A Low Cost Solution to Small Satellite Space Access," SSC03-VII-2, In the Proceedings of the 17th Annual AIAA/USU Conference on Small Satellites, Utah State University, Logan, Utah, August 11 -14, 2003.
 - Holzhauser, D., Duncomb, Robert, Young, D, et. al.. “Building an Experimental Joint Battlespace Infosphere (YJBI-CB), ” 2001.
 - Holzhauser, D., Duncomb, Robert, Young, D. et. al. “Chemical/Biological Plume Analysis Knowledge Sources (Cpaks)” 2000.
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