

## Barnhart Bio-Short Rev1:



David Barnhart joined DARPA in December 2010 and specializes in developing innovative approaches and architectures for small satellites, satellite robotics and inspiration-based engineering technology.

Prior to DARPA, Mr. Barnhart was the Director and Co-Founder of the Space Engineering Research Center at the University of Southern California (USC), jointly developed by the Information Sciences Institute (ISI) and Department of Astronautical Engineering. He was responsible for developing innovative solutions in aerospace and small satellite systems and technologies, new satellite design-synthesis tools to cut design time down to days from months and incorporate integration as a design tool, hybrid robotics concepts for satellites with the ability to be demonstrated in very large multi-dimensional low cost ground testbeds, and creation of an “engineering teaching hospital” concept as a Research Professor to integrate students into real aerospace programs with hands on mentorship.

Prior to USC David helped initiate two commercial space companies, serving as Vice President and Chief Financial Officer for MSS in Los Angeles CA; and was the youngest of a three-person international Executive Management board for a German startup in Bremen, Vanguard Space. At Vanguard he was the chief engineer responsible to communicate the technical attributes of a satellite servicing business to the international space re-insurance and financial institutions.

David served as an AF civilian for over 13 years and helped birth several notable projects over that time, including pioneering demonstration of a miniature lunar lander vehicle modified from KKV technologies, showcased to the Vice President on the 25th Anniversary of Apollo 11, and architecting the original XSS Series demonstration programs which formed the early basis for U.S. research into miniaturization and technology infusion for micro-satellite systems. Both the XSS-10 and XSS-11 team’s received the National AIAA Space Systems Award in 2003 and 2007 for pioneering developments and contributions to the aerospace industry.

Mr. Barnhart holds a Bachelor of Science degree in Aerospace Engineering from Boston University and a Masters of Engineering from Virginia Polytechnic Institute.