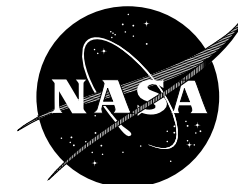


Biographical Data

Lyndon B. Johnson Space Center
Houston, Texas 77058



National Aeronautics and
Space Administration

LOREN J. SHRIVER
VICE PRESIDENT, ENGINEERING AND INTEGRATION
CHIEF TECHNOLOGY OFFICER
UNITED SPACE ALLIANCE

Loren Shriver is Vice President, Engineering and Integration, for United Space Alliance and is USA's Chief Technology Officer. He is responsible for Engineering and Integration functions and processes, software engineering and product system software processes, and technology development and innovation management processes and functions.

Shriver is a former Air Force test pilot and NASA astronaut. Beginning in 1997, he was Deputy Director for Launch and Payload Processing at Kennedy Space Center (KSC). In 1993, he became Space Shuttle Program Manager, Launch Integration, at KSC. In this position, he was responsible for final Shuttle preparation, mission execution, and return of the orbiter to KSC following landings at Edwards Air Force Base, CA. He most recently served as USA's Deputy Program Manager of the Space Shuttle Program from 2000 to 2006.

Shriver has flown in 30 different types of single and multiengine civilian and military fixed-wing and helicopter aircraft. He has logged over 6200 hours in jet aircraft and holds commercial pilot and private glider ratings.

He was commissioned when he graduated in 1967 from the United States Air Force Academy. From 1969 to 1973, he served as a T-38 academic instructor pilot at Vance Air Force Base, Oklahoma. He completed F-4 combat crew training at Homestead Air Force Base, Florida, in 1973 and was then assigned to an overseas tour in Thailand until October 1974. In 1976, he began serving as a test pilot for the F-15 Joint Test Force at Edwards Air Force Base.

Selected as an astronaut by NASA in January 1978, Shriver is a veteran of three space flights and has logged more than 386 hours in space. His missions include STS-51C in 1985, STS-31 in 1990, and STS-46 in 1992. In October 1992, he was assigned as Deputy Chief of the Astronaut Office. In 1993, he accepted the Space Shuttle Program position at KSC, and retired from the Air Force as a Colonel.

Shriver's accomplishments have earned him many notable awards. He has received the United States Air Force Distinguished Flying Cross, the Defense Superior Service Medal, the Defense Meritorious Service Medal, the Air Force Meritorious Service Medal, and the Air Force Commendation Medal. His NASA awards include the NASA Distinguished Service Medal, the NASA Outstanding Leadership Medal, and the NASA Space Flight Medal (three times). In 1990, he received the Flight Achievement Award from the American Astronautical Society and the Haley Space Flight Award from the American Institute of Aeronautics and Astronautics. In 2008, Mr. Shriver was inducted into the Astronaut Hall of Fame.

He earned a bachelor of science degree in aeronautical engineering from the United States Air Force Academy in 1967. The following year, he received a master of science degree in astronautical engineering from Purdue University. He is originally from Paton, Iowa.

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