

Charles S. Liang is a Senior Fellow Emeritus of Lockheed Martin Corporation, retired in 2006, and presently resides in Austin, Texas. Born in Beijing, China, he received the B.S. degree in Electrical Engineering from the University of Illinois at Urbana-Champaign, the S.M. degree in Applied Physics from Harvard University, and the Ph.D. degree from the University of Illinois in 1968.

He has been involved in radar systems and signature technology for over 40 years. In particular, he led the design of the reduced signature F-16 multirole fighter and was a consultant to both the Tomahawk cruise missile (BGM-109) and the Advanced Cruise Missile (AGM-129) programs. In the 1980s, he was responsible for the integration of many low observable concepts into a unique aircraft configuration that resulted in the A-12 naval medium attack design. Prior to retirement, he supported the F-35 Joint Strike Fighter program and numerous advanced aircraft projects on vehicle signature design and development.

Joining the company in 1969, he contributed to the scattering analyses of targets and configuration geometries of practical importance to LO design and to their experimental verification through use of high-resolution radar and coherent imaging system. In addition, he was the principal designer of many rapid-scan antennas used in a series of replica Soviet radars used for aircrew electronic warfare training against surface-to-air missile systems. In the mid-70s, he was the resident manager for the successful installation, test, and support of four AN/FPS-110 aircraft control & warning radars in Taiwan, the Republic of China.

A recipient of the 1982 Opal Recognition Award for extraordinary technical performance from General Dynamics and the 1993 Robert E. Gross Award for technical excellence from Lockheed, he was selected to be an Asian American Engineer of the Year 2002 by the Chinese Institute of Engineers/USA and to receive the 2006 Combat Survivability Award for Technical Achievement by the National Defense Industrial Association. Presently, he is a Life Fellow of the IEEE and a Fellow of the AIAA.