



Dr. Anthony J. DeSimone

Dr. Anthony J. DeSimone is the Ballistic Missile Defense (BMD) System Architect and Technical Director for both the Long Range Discrimination Radar (LRDR) and SPY-1 Antenna Upgrades for Lockheed Martin Mission Systems and Training (MST). In this position, Dr. DeSimone is responsible for the design and development of a common solid state radar product that supports BMD requirements across all programs.

Prior to the capture of the LRDR program by Lockheed Martin, Dr. DeSimone was the Technical Lead for Aegis BMD programs. In this capacity he oversaw the integration of both the AN/SPY-1 Radar and the SM-3 missile into the Aegis Combat System. A particular area of emphasis was in RF discrimination and the handover between the AN/SPY-1 Radar with the BMD Signal Processor (BSP) and the integrated Kinetic Warhead with IR seekers used on the SM-3 Block IB and Block IIA (RF/IR) missiles.

Dr. DeSimone was responsible for complete system engineering design, integration and test of products across multiple Aegis baselines and elements such as Aegis BMD BSP, BMD Computing Suite Adjunct Computer, SPY, WCS, and C&D elements of the Aegis computer program as well as overseeing several combat system analyses. Dr. DeSimone was also responsible for design, performance and integration of system functionality, including radar system performance (waveforms, discrimination, classification), interoperability (interactions with Ground-Based Missile Defense, Patriot, THAAD), weapons systems performance (midcourse guidance, kill assessment, track filtering), SM-3 integration, Kill Assessment and mission planning. Dr. DeSimone is a recognized subject matter expert within Lockheed Martin and by the government customer for Aegis BMD system capabilities and performance analysis.

Dr. DeSimone has been a Director at Lockheed Martin since 2014 following his roles as Lockheed Martin Fellow (2008-d2012) and Senior Fellow (2012- 2014).

Dr. DeSimone received his Bachelor's, Master's and Doctorate degrees from Drexel University focused on Physics.