



**Dr. Amy Sun**

*Senior Staff Systems Engineer/  
Advanced Programs Lead for Narrowband SATCOM  
Lockheed Martin*

Dr. Amy Sun leads Lockheed Martin's Advanced Programs for Narrowband SATCOM in the Military Space line of business, where she is responsible for next-generation capabilities and technologies to meet evolving and future tactical missions. Prior to this role, she was a research engineer in mission and business concepts, where she developed several new market technology pursuit opportunities. Her many contributions to design and systems engineering include leading a technology investigation for the use of microelectromechanical systems in missile and launch vehicle systems.

Dr. Sun began her career at Lockheed Martin Space Systems Company in 1997 as an ASIC and processors design engineer with the Fleet Ballistic Missile and Airborne Laser programs. She later became the Mobile User Objective System (MUOS) System Integration Lab project lead during its Component Advanced Development phase.

Dr. Sun is co-founder and president emeritus of a non-profit global organization committed to building technical capacity of a locality, improving individuals' abilities to develop themselves and their communities. She led a multinational team to develop a sustainable, low-cost, open-source broadband internet system with a replicable business model that has been piloted successfully in Afghanistan, Kenya and elsewhere. She has been a board member of BattleBots IQ, an educational program aimed at middle and high school science, technology, engineering and math hands-on instruction.

She earned her Ph.D. at the Massachusetts Institute of Technology's Center for Bits and Atoms, where she investigated synthetic programmable boundary layers with the goal of developing innovative energy transport mechanisms. Her master's degree was focused on field fabricated solar thermal turbines. She holds dual electrical and computer engineering bachelor's degrees from Purdue University.

Dr. Sun has earned the U.S. Navy Arctic Service Ribbon for her pioneering work as well as Lockheed Martin's highest honor, the NOVA Technical Excellence award.

Asian American  
Engineer  
of the Year  
Award

