Evolution of EEE Parts for Space Missions

Larry Harzstark
The Aerospace Corporation
lawrence.i.harzstark@aero.org

The Air Force has been flying successful space missions for many years and much of its' accomplishments and achievements have been credited to the design practices and utilization of high reliability electrical, electronic and electromechanical devices.

From flowdown of requirements to part and manufacturer selection, the government and contractor industrial base have worked as partners to achieve the successes observed.

Our country is entering a new phase of enemies and threats to our freedom which will provide challenges not previously foreseen.

This briefing will provide an overview of how the Air Force met the previous goals and what is the path for the future for electronic devices and systems.

INSTRUCTOR BIO

Larry Harzstark has over 35 years of experience in parts and component management- related engineering areas. He has been involved in all aspects of component engineering from the design of custom radiation-hardened devices to meet strategic missile requirements, to failure analysis, parts selection, design reviews, supplier audits, technology reviews and parts control boards. Recently, Larry has been involved in aspects of Commercial Off the Shelf (COTS), as well as Plastic Encapsulated Microcircuits (PEMs) and their utilization in military systems. He developed the guidelines for use of PEMs in an Army missile system and in space applications. His extensive expertise and knowledge in the field of microelectronics has earned him a reputation as a problem solver. Larry currently is an Aerospace Fellow responsible for technical aspects of new technology insertion, PMP management, evaluations of alternative technologies and problem resolution for programs. He earned his BSEE from the Polytechnic Institute of Brooklyn in 1969, and his MSEE from Clarkson College of Technology in 1970.