

# Role of Standardization in 21st Century Mil-Aero Electronics

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The late 20th Century saw the mil-aerospace industry struggling to find the right balance between the Perry Memo call for industry independence and the need to be able to maintain quality and auditability. Many military and industry standards suffered during that period. Many programs gave up the use of mil standard electronics. However, several high profile failures have pushed the pendulum back to standardization on some programs. So once again the industry is searching for balance.

It is clear that industry standards must find the right level of detail and prescriptiveness to ensure quality and reliability but they must also be ready to adapt to new technologies. This talk will take a look at new technology insertion efforts in the SAE SSTC G12 and G24 committees and review some of the approaches to parts management in the 21st Century.



**Dr. Anduin Touw** is a Technical Fellow in Component Engineering and Electronics Reliability at The Boeing Company. She has a MS in Statistics from UCLA and a PhD in Reliability Engineering from University of Maryland. She is chair of the SAE SSTC G12 committee on solid state electronics and SAE G24 committee on Pb-free Risk Mitigation. She led the development of GEIA-STD-0005-2 on tin whisker risk mitigation and has developed standard approaches for managing semiconductor wear out, non-hermetic parts in space applications, use of parametric data for quality evaluation, and other technology insertion activities.