

Biography: Mr. Kenneth L. Cureton



Ken Cureton retired from Boeing (Rockwell) after 29 years of experience, and accomplished another 16 years of successful technical leadership in commercial and government sectors. His in-depth expertise includes:

- Enterprise Systems Architecting
- System-of-Systems Modeling and Integration
- Complex Networked Systems and Interoperability
- Enterprise Capability Enhancements leveraging Cloud Computing
- Resilience Engineering
- Multi-disciplinary Integrated Project/Product Teams
- Avionics Design & Production for manned and unmanned space systems

Mr. Cureton's most recent contributions to Systems Engineering include:

- Systems Engineering guidance for new business proposals
- Cost/Software Data Reporting system change impact assessment to new business proposals
- Electrical Design Integration-Maturity Phases Metrics (KC-46A Tanker Program corrective action)
- Sense-and-Avoid for Unmanned Aerial Systems in Commercial Airspace
- Interoperability Verification for NATO Federated Mission Networking

Mr. Cureton has served as:

- The NCO Industry Consortium (NCOIC) as Technical Council Chair Emeritus (chairman from April 2010 through April 2011)
- Get-To-Blue proposal efforts as an Intelligent Campaign Action Team (ICAT) member
- System-of-Systems Engineering as a Boeing Designated Expert (BDE) for Interoperability
- Technical Lead Engineer (TLE) for Systems Engineering & Integration

Mr. Cureton's professional recognition and certificates include:

- NCOIC – Certified SCOPE Practitioner (2010)
- NCOIC – Technical Recognition Award (2006, 2007)
- Rockwell - ISO 9001 Internal Assessor Training & Certification (1996)
- Rockwell - Engineer of the Year Nominee (1991)
- Design For Competitiveness Certified Facilitator - Institute for Competitive Design (1990)
- Systems Engineering Program Certificate - California Polytechnic University, Pomona (1990)
- Artificial Intelligence Certificate - California Polytechnic University, Pomona (1988)
- Fiber Optics for Avionics Systems Certificate - University of California, Los Angeles (1988)
- Rockwell - Engineering Employee of the Month (July 1987)
- Awarded Certificate in Data Processing (CDP #770303) - Institute for Certification of Computer Professionals

Mr. Cureton also taught several graduate courses in USC's Systems Architecting and Engineering Program:

- SAE 542: Advanced Topics in Systems Engineering (co-Instructor Summer & Fall 2017)
- SAE 549: Systems Architecting (Fall 2003, Summer 2017, Spring 2018)
- SAE 550: Systems Architecting and the Political Process (Fall 1996 through Fall 2014, then Spring 2016 forward)
- SAE 574: Net-Centric Systems Architecting & Engineering (Fall 2003 through Fall 2013)
- SAE 599: Resilient, Cyber Secure Systems & System-of-Systems (Fall 2014)
- and has presented his research with Professor Azad Madni at the National Science Foundation Workshop in Decision Engineering

Mr. Cureton has a BS in Physics from California State University Los Angeles and a MS in Systems Architecting & Engineering from the University of Southern California. His papers and publications include:

- K. Cureton, A. Madni; "Role of Interoperability in Resilient System-of-Systems for Humanitarian Assistance and Disaster Relief", AIAA Space 2016 Conference, 14 September 2016
- S. Settles, K. Cureton; "Systems-of-Systems Architecting: Educational Findings and Implications", IEEE SMC International Conference, 10 October 2005
- K. Cureton; "Chinese Aerospace Industry Assessment", NASA Strategic Avionics Technology Working Group (SATWG) Spring Conference, 24 March 1993
- C. Daniher, K. Cureton; "A Lifeboat for Space Station: The Assured Crew Return Vehicle (ACRV)", Proceedings of the 43rd Congress of the International Astronautical Federation, IAA-92-0389, 28 August 1992
- H. Cohen, K. Cureton; "Pade Approximants and the X & Y Functions of Radiative Transfer Theory", J. Quant. Spectrosc. Radiat. Transfer, Vol 11, pp 1279-1283, 21 December 1970

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