



Resiliency in Systems Engineering

August 18, 2020

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5:30 PM EDT

Virtual – Online Meeting

(Registrants will receive connection information)

Speaker: Rick Hefner, Ph.D.
Program Director, Caltech Center for Technology and Management Education



Biography: Rick Hefner, PhD, specializes in systems development and maintenance; project management; Lean Six Sigma; process improvement, technology transfer; and risk management. His experience spans over 40 years.

Dr. Hefner has worked with companies in the aerospace, communications, electronics, and health sciences industries: including AeroVironment, Applied Physics Laboratory, Applied Materials, Ares Management, Boeing, DRS Technologies, Halliburton, Herbalife, Honeywell, Jet Propulsion Laboratory, John Deere, L-3 WESCAM, Maytag, Motorola, Northrop Grumman, Pacific Bell, Raytheon, Schlumberger, Southern California Edison, St. Jude Medical, The Aerospace Corporation, Toshiba, TRW, U.S. Navy, and Xerox.

Dr. Hefner is credited with over 200 publications and presentations. He earned his PhD from the University of California, Los Angeles, in applied dynamic systems control. He received his MS and BS from Purdue University in interdisciplinary engineering.

Abstract: Resilience is the ability to provide required capabilities in the face of adversity. In a systems context, adversity is any condition that may degrade the desired capability of a system, including environmental sources, normal failure, as well as human sources, malicious or accidental. A system designed for resilience typically possesses four attributes: robustness, adaptability, tolerance, and integrity.

This presentation will discuss the characteristics of a resilience system and its supporting design techniques. Examples from industry will be presented.

We hope that you can join us!