

Mr. Kowalski has worked extensively in submarine warfare systems, and is a former submarine officer.

Mr. Kowalski is a graduate of the US Naval Academy with a BS degree in mathematics, and has an MS degree in Information Systems Science from Salve Regina University.

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Mr. Norman W. Kowalski is a computer scientist in the architecture division at the Naval Undersea Warfare Center (NUWC) Division Newport, Newport, RI.

Mr. Kowalski is currently involved in the development of a network architecture to support the transition of legacy submarine systems in their obsolete equipment replacement efforts. He is also supporting Navy and DoD programs in migrating to open standards, as well as supporting the development and employment of measures to apply to an open systems engineering effort. In this context, Mr. Kowalski has supported the Navy's New Attack Submarine and the Trident Combat Control System Vision 2005 programs as well as the Royal Australian Navy's open systems engineering effort, providing Open Systems Architecture technical specification, technical management and associated open systems procurement support. Mr. Kowalski also has supported the development of an Open Systems Engineering educational materials, under the sponsorship of the Undersecretary of Defense for Acquisition and Technology's Open Systems Joint Task Force.

Mr. Kowalski is the author of numerous Open System presentations, and papers, including:

- A six (6) hour tutorial entitled: "*Open Systems Engineering*", available via the Open Systems Joint Task Force homepage at <http://www.acq.osd.mil/osjtf/ed-tng.html>
- A paper entitled: "*Transition to Open Standards*", provided at the Fifth Systems Reengineering Technology Workshop, 7-9 February 1995, Monterey California;
- A paper entitled: "*Engineering an Open System*", provided at the Seventh Annual Software Technology Conference, 9 - 14 April 1995, Salt Lake City, Utah;
- A paper entitled: "*Key Engineering Management Practices to Achieving an Open System in a DoD Environment*", provided at the Eighth Annual Software Technology Conference, 21-26 April 1996, Salt Lake City Utah;
- A paper entitled "*Key Open Systems Engineering Processes for Managing Commercial Product Volatility in the DoD Environment*" provided at the Ninth Annual Software Technology Conference, 27 April -2 May 1997, Salt Lake City Utah, co-authored with Bruce Stevens;
- A paper entitled "*Open Systems Engineering Effectiveness Measurement*" provided at the Tenth Annual Software Technology Conference, 19-23 April 1998, Salt Lake City Utah, co-authored with James T. Oblinger Jr., William J. Peresta;