

**Russell Shannon, Ph.D.**, is an electrical engineer at the Naval Air Systems Command (NAVAIR) in Lakehurst, New Jersey. He supports emerging air vehicle platforms in order to ensure optimal testability and supportability. In that capacity, he currently supports the Marine CH-53K Heavy-lift Replacement program and the VH-71A/B Presidential Helicopter Replacement program. Dr. Shannon is also the Team Lead of the NAVAIR Integrated Diagnostics and Automated Test Systems (IDATS) team. IDATS is focused on diagnostics and prognostics research to enhance aircraft maintenance. Current research includes techniques for realizing netcentric diagnostics within military automated maintenance environments, fusing test data and maintenance data for data mining purposes, and the creation of devices to more-easily assess the health of avionics within an aircraft. Prior to joining NAVAIR, Dr. Shannon was a member of Oxford University's Robotics Research Group. There, he researched the application of two-dimensional acoustic measurements and signal processing to the British aquaculture industry. His current research interests include the application of technologies to enhance diagnostics and to enable prognostics.