

Aaron A.D. Fansler

CEO & Partner – FrontLine Cyber Solutions Corporation

Mr. Aaron A.D. Fansler is a CEO & Partner for FrontLine Cyber Solutions Corporation. Mr. Fansler is the technology expert behind FrontLine's industry-leading cyber security solutions for industrial control networks. Working on a Ph.D. in artificial intelligence, and an extensive background in systems engineering and applied mathematics, offensive and defensive cyber operations both commercially and for both U.S. government and foreign countries.

Aaron specializes in the protection of critical infrastructures for potential cyber, social, and physical vulnerabilities both. Since 2002, Aaron has worked in the arena of assessing and exploiting potential vulnerabilities with Industrial Control Systems (ICS), such as nuclear power plants, non-nuclear power plants, manufacturing plants, naval facilities and casinos worldwide. From 2006 to 2008, while working at the US Department of Energy's (DOE) Pacific Northwest National Laboratory (PNNL) Aaron developed and established a methodology to bring together different types of assessments (i.e., physical, red teaming, pen-testing, insider threats, etc.) and created CIIVA (Critical Infrastructure Interdependencies Vulnerability Assessment). Most recently, Aaron and his technical team have been consulting with Emirates Nuclear Energy Corporation (ENEC) in providing security evaluations and tests of their nuclear power plant.

Aaron has extensive working experience and business relationships with DARPA, DOE, FBI, CIA and NSA, and other US intelligence organizations; DHS; U.S. Army; U.S. Air Force; and commercial organizations such as Framatome, ENEC, Florida Power & Light, Siemens, Kinder Morgan, Electric Reliability Council of Texas (ERCOT), ENEC, and Saudi Aramco. Aaron has been called on to provide subject matter expert testimony and guidance to senior-level policymakers in U.S. Congress and also at the State, and local levels.

Prior to working for FrontLine Cyber Solutions Corporation, Aaron worked for Northrop Grumman Aerospace Systems as a Program Manager where he led Research and Development (R&D) efforts on cyber network operations (CNO) capabilities for ICS infrastructures. Before that, Aaron was a member of the Technical Staff in the National Security Division at the Pacific Northwest National Laboratory (PNNL), where he was a member of the Department of Energy's Field Intelligence Element (FIE). Aaron also worked for the Air Force Information Warfare Center (AFWIC) with their offensive cyber efforts for Computer Network Operations and Red Teaming operations. Prior to that Aaron served 10 years in both the Air Force and Army as officer in Special Operations Forces (SOF).

Aaron obtained his Bachelor's degree in Applied Mathematics from the University of Colorado, a Master's degree from Capitol Technical University in Information Assurance and another from University of Texas in Computer Science. Aaron is currently working on his Ph.D., in Computer Science w/emphasis on Machine Learning.