



U.S. ARMY COMBAT CAPABILITIES  
DEVELOPMENT COMMAND  
DEVCOM ANALYSIS CENTER

## Dr. Thomas Stadterman

DEVCOM Analysis Center Chief Scientist



Dr. Thomas Stadterman is the Chief Scientist for the Combat Capabilities Development Command (DEVCOM) Data & Analysis Center (DAC). He develops the vision and strategy for DEVCOM DAC's Science & Technology (S&T) efforts, maintains oversight of the S&T program, and pursues new methodology to support Army Modernization Priorities.

Dr. Stadterman holds Doctor of Philosophy and Master of Science degrees in Reliability Engineering from the University of Maryland. He also holds a Master of Science degree in Administration from Central Michigan University and a Bachelor of Science degree in Electrical Engineering from the University of Pittsburgh. Dr. Stadterman graduated from the Defense Acquisition University Senior Service

College Fellowship, and he was the distinguished graduate from the Army School of Engineering and Logistics, Quality and Reliability Engineering Program.

In 2020, Dr. Stadterman was the acting Executive Technical Director of DEVCOM DAC. He led the technical workforce across seven Divisions and two offices, and he led the development and execution of the DAC technical program. He also formulated and maintained technical processes, procedures, and methods for technical work efforts.

From 2016-2018, Dr. Stadterman was the Senior Campaign Scientist for Analysis & Assessment at the Army Research Laboratory (ARL). He developed the Analysis & Assessment campaign vision, strategy, and plan. He ensured the Analysis and Assessment campaign was synchronized as part of an overall ARL technical strategy. Dr. Stadterman also coordinated ARL's efforts for the Cyber and Electromagnetic Technologies in Complex Environments (CETCE) Essential Research Program (ERP). He led the development of the ERP vision, strategy and management plan.

From 2012 to 2013, Dr. Stadterman served as Chief, Test and Quality Division, Project Management Office, Distributed Common Ground System-Army (DCGS-A), PEO IEW&S. He had oversight of all test and quality activities for DCGS-A, an Acquisition Category (ACAT) IAM program with \$10B life cycle cost.

He managed test program including field exercises, formal qualification tests, developmental test, and operational tests



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including cybersecurity vulnerability testing (Blue Team/Red Team testing). He also established software quality metrics and practices, and reliability initiatives, within the PMO.

From 2005 to 2011 and 2014 to 2015, Dr. Stadterman was the Chief of multiple branches within the US Army Materiel Systems Analysis Activity (AMSAA) including the Intelligence, Surveillance, and Reconnaissance (ISR) Branch, Maneuver Systems Branch, and Chemical Demilitarization Branch. In these positions, he supervised between 20 and 35 personnel and managed independent systems analysis on intelligence systems, sensors, ground combat systems, direct fire weapons, chemical and biological systems, and chemical demilitarization facilities. Dr. Stadterman had oversight of the Biometrics Enabling Capability Analysis of Alternatives (AoA) and the DCGS-A Trade Space Analysis, and he and his branches led AMSAA's efforts in numerous other AoAs. He also led Branches to conduct analyses using the OneSAF simulation and the Fusion Oriented C4ISR Utility Simulation.

Before his branch chief positions, Dr. Stadterman conducted and managed research, analysis, and guideline development in Physics-of-Failure (PoF), prognostics, and life-consumption monitoring. He initiated the development of the electronic and mechanical PoF analysis capability within AMSAA, and he performed PoF reliability assessments to improve designs and reduce costs.

Dr. Stadterman has published four book chapters and over 35 articles in international journals, symposium proceedings, and magazines in the area of reliability engineering, PoF, and prognostics.