

James “Bubba” Davis is a Software Engineering Manager at L3Harris. He has over 25 years of experience with model based systems engineering and mission critical software architecture, design, implementation and integration.

Dr. Davis has participated in the Future Airborne Capability Environment (FACE) Consortium since February 2012. From March 2011 to June 2021, he was directly involved with FACE™ related efforts supporting NAVAIR, Army PEO Aviation, and Army DEVCOM AvMC. He previously led the Vanderbilt team responsible for developing and maintaining the FACE Conformance Test Suite supporting the FACE conformance program. Additionally, he was involved with the Business Working Group (BWG) Conformance subcommittee in establishing the FACE conformance program. He co-lead the FACE Technical Working Group (TWG) Conformance Verification subcommittee until fall of 2016. Dr. Davis became involved with the FACE TWG Data Model Subcommittee in February 2012. He became co-lead of the subcommittee in April 2014 and continues to be actively involved in all FACE Data Architecture activities. Dr. Davis is currently serving as Chair of the FACE Domain Interoperability Working Group (DIOG), which was formed from the FACE TWG Data Model subcommittee. He chairs the FACE Conformance Tools CCB and DIOG CCB as well as serves as a voting member of the FACE CCB, TWG CCB, and Shared Data Model (SDM) CCB.

He is a principal author of the FACE Technical Standard, Editions 2.1, 3.0, 3.1, and the soon-to-be-published 3.2. Also, he is a principal author of the Open Universal Domain Description Language Standard, Editions 1.0 and 1.1.

Dr. Davis has professional experience in academia, industry, and government. He has focused on software intensive integrated systems throughout his career. Of particular interest to Dr. Davis are domain specific modeling tools/techniques and the application of automated model/system integration technologies for complex systems. Key concepts supporting domain specific modeling include data modeling and semantic interoperability. His work on software integrated systems involves the appropriate application of open system architecture standards to achieve system lifecycle and business goals.

Dr. Davis has Doctor of Philosophy and Master of Science degrees in Electrical Engineering from Vanderbilt University. His Bachelor of Engineering degree in Electrical Engineering and Computer Science is also from Vanderbilt University.

