

MODELING & SIMULATION

Davidson Technologies Inc. | Colorado Springs, CO | Traditional
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What capability gaps are you able to fill and which industry colleagues would you like to know about them?

Our Founder, Dr. Julian Davidson, distinguished himself as one of the renowned experts in missile defense research with a career that spanned over 40 years-Including serving as the first MDA Civilian Director. Davidson Technologies opened in 1996 and has been providing highly technical, low risk support to our U.S. Government and Military customers for more than 25 years.

Davidson is transformation focused; with a concentration on disruptive technologies across our entire enterprise which will best protect our Nation, advance our business model and evolve our employee base. The paradigm of Davidson quality is reinforced by the tenacity and ingenuity of our people, the legacy and rich history of our past performance, and our unique intellectual property. Davidson's corporate headquarters is in Huntsville, Alabama with an office in Colorado Springs, Colorado.

What are you most proud of?

Davidson provides medium-high fidelity physics-based models and simulations (M&S) including missile defense element models and 6 Degrees of Freedom (6-DOF) missile models. Davidson's MACSIS Program connects infrastructure with Big Data Repository for shared capabilities and machine learning. Our robust staff of highly skilled Subject Matter Experts solve the most complex System Engineering problems and use advanced computational techniques to support our national defense.

Davidson also provides sensor support to help the Warfighter, from the ground level to space itself. We help make sure that satellites are secure from cyber threats. Davidson engineers software to develop complex missile models. We use this software to create detailed representations of foreign missile threats and scenarios. Davidson also uses advanced modeling techniques to simulate scenarios to defend the country and our allies.

Davidson utilizes proven Agile Scrum methods, and Continuous Improvement (CI) and Continuous Test in our software development processes, thus further enhancing the cost effective, quality driven, and timely development of software capabilities.

How did your organization originate?

Davidson has a distinguished track record of supporting the Warfighter to enhance the security of the U.S. and our allies from a variety of attacks. Davidson continues to plan and execute numerous events such as Wargames, Exercises and training using M&S systems developed by Davidson engineers to allow the Warfighters to develop Tactics, Techniques and Procedures (TTPs) to improve our nation's defense posture. Using a Davidson developed medium-high fidelity missile defense asset model, Davidson employees identified deficiencies in a missile defense asset leading to the improvement of the operational system.

Davidson has an acclaimed corporate culture and reputation that enables Davidson to attract some of the best engineering personnel, treat them like family and retain the employees long term to provide excellent support to Warfighter. Davidson Technologies Inc is extremely proud of our ability to hire and retain the best people in the industry boasting a 93% retention rate

Capabilities

Modeling and Simulation, Test and Evaluation, Cyber Resiliency, Artificial Intelligence and Machine Learning