Systems Thinking & Solutions

A Technical Services Company

Systems Engineering | Mission Engineering | Modeling, Simulation & Analysis

UEI # KK8NKCXA3YK8 | CAGE 73AW2 | Primary NAICS: 541715

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Our Company

Systems Thinking & Solutions (STS) is a technical services firm dedicated to advancing the capabilities and utility of engineered systems. We apply rigorous scientific and systems engineering methods to deliver innovative solutions in model-based systems engineering (MBSE), system integration, and modeling, simulation, and analysis (MS&A) of complex systems. Since 2011, DARPA, DoW R&E, DLA, and AFRL have relied on STS for multi-domain combat simulation, AI-assisted modeling, simulation, and analysis for contested logistics, mission engineering, and technical support for large-scale enterprise systems.

- Virginia corporation established in 2011; cleared facility.
- Team credentials include Ph.D., PMP, CSM, ITIL, MCSA, Six Sigma Black Belt, and DoW 8140 qualifications.
- NAICS: 541715, 541512, 541519, 541611, 541618.
- **Primary POC:** John Johnson, Ph.D., President
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Core Capabilities

- Systems Engineering, Integration, and Technical Assistance (SETA).
- Mission Engineering.
- AI-Enabled Modeling, Simulation & Analysis (MS&A).
- Model-Based Systems Engineering (MBSE).
- Business Process Modeling & Reengineering.
- Lean Six Sigma Process Improvement.
- Enterprise Software Deployment, Sustainment & Automation.

Differentiators

- **Systems Thinking:** We approach every problem and solution with the mission in mind, considering the entire system of people, processes, and technology.
- **Systems Engineering & MS&A Under One Roof:** Our system architects and simulation engineers collaborate on digital representations and computational models that ground decisions in data and science.
- **Research to Operations:** Our experience spans the full life cycle, from applied research and technology transition to enterprise-scale operations.

Past Performance Highlights

Defense Advanced Research Projects Agency (DARPA)

- SETA services for applied research and development of a constructive multilevel security modeling and simulation capability.
- Developing models for platforms, lifeforms, and command & control (C2) for multi-domain combat simulations and kill chain analysis.
- Architecting and developing AI-assisted modeling, simulation, and analysis capabilities for contested logistics.

DoW Research & Engineering (DoW R&E)

- Systems engineering support for developing a modeling, simulation, and analysis VPC environment. Scope includes systems architecture, business process modeling, system integration, and technology transition.

Defense Logistics Agency (DLA)

- Tier-3 technical support and automation for enterprise software, mobility, and directory services covering over 40,000 CONUS/OCONUS users and endpoints on NIPR/SIPR networks.
- Systems engineering services for the $100M modernization of an ERP solution with over 22,000 users across 28 countries.

Old Dominion University – Virginia Modeling, Analysis, and Simulation Center (VMASC)

- Interdisciplinary applied research and development for mission engineering, including system dynamics models for Defense Manufacturing Readiness.
- Designing graphical and computational decision support models. Examples include the modernization of the maritime ship repair industry to I4.0/5.0 technology and the absorptive capacity of migrating displaced populations.

Air Force Research Laboratory (AFRL)

- Selected as mission engineering and MS&A experts to develop and deliver an applied mission engineering course for senior acquisition leaders and decision makers.