TSS

THUNDERSTORM SOLUTIONS

COMPANY PROFILE

Minority-owned
small business
Cumberland, Maryland

CONTRACTING DATA

CAGE 14JL9

UEI
NCW1KRBAQU16

NAICS CODES

541611 541330
541519 561621

TSS POINT OF CONTACT

Engineering inquiries
and teaming opportunities

434-440-6033

info@
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14615 McMullen Hwy, SW
Suite 2
Cumberland, MD 21502

ENGINEERING OVERVIEW

Engineering for mission critical systems

Technical support for government agencies and prime contractors

ThunderStorm Solutions, LLC (TSS) brings systems engineering, integration, and test together with technology, physical security, and program support. We help define technical needs, connect system components, and establish the evidence needed to evaluate performance.

SYSTEMS ENGINEERING

Translate operational needs into technical requirements, architectures, and interface specifications. Support traceability, trade studies, and design reviews.

INTEGRATION

Plan hardware, software, and instrumentation integration. Identify dependencies, maintain configuration baselines, and resolve interface issues.

TEST AND EVALUATION

Develop procedures tied to requirements. Support test execution, analyze findings, and document discrepancies and corrective actions.

CONNECTED MISSION SUPPORT

Extend engineering delivery through network and application support, security system integration, and clear program reporting.

A focus on usable results

Repeatable testing. Documented configurations. Clear ownership. An operational handover customers can use.

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ENGINEERING OVERVIEW

A disciplined engineering approach

TSS connects each stage of delivery to clear outputs and customer review points. Scope and depth can be tailored to the system, operating environment, and agreed requirements.

01 PLAN

Clarify the operating need, assess the existing environment, and identify interfaces and constraints. Establish requirements and acceptance criteria before implementation.

Typical outputs Requirements baseline, assessment findings, interface inventory, and initial risk register.

02 ENGINEER

Develop the design and integration approach. Define configuration baselines, implementation sequencing, maintenance windows, and rollback provisions where needed.

Typical outputs Architecture and interface documentation, integration plan, configuration records, and migration procedures.

03 VALIDATE

Run procedures against agreed criteria. Record test conditions and results, track discrepancies, and retest affected functions following corrective changes.

Typical outputs Verification records, discrepancy log, corrective actions, and acceptance test report.

04 SUPPORT

Prepare operators and maintainers to use the solution. Transfer configuration information, operating guidance, known limitations, and remaining action ownership.

Typical outputs Operator guides, training materials, sustainment documentation, and a handover package.

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ENGINEERING OVERVIEW

Illustrative engineering applications

The scenarios below demonstrate potential applications of TSS service areas. Projects, durations, and outcomes are illustrative. Customer identities are proprietary.

TEST SYSTEM MODERNIZATION

Illustrative duration: 24 months

Need A laboratory needs consistent testing across aging equipment and separate data tools.
Approach Integrate instrumentation and centralized data collection with defined requirements, configuration baselines, and verification procedures.
Value Repeatable tests, traceable results, and fewer manual reporting steps.

NETWORK INFRASTRUCTURE TRANSITION

Illustrative duration: 12 months

Need A field office must replace unsupported equipment while retaining application access.
Approach Inventory equipment, map dependencies, and coordinate phased migration with access testing and rollback procedures.
Value A documented, supportable network environment.

FACILITY SECURITY INTEGRATION

Illustrative duration: 18 months

Need Separate access control and surveillance systems limit visibility across entry points.
Approach Assess coverage, integrate event monitoring, and verify alarm workflows with operator procedures.
Value Coordinated monitoring and consistent alarm response.

PROGRAM REPORTING IMPROVEMENT

Illustrative duration: 6 months

Need Disconnected spreadsheets slow engineering program reviews.
Approach Consolidate milestones and introduce shared risk and action registers with clear update ownership.
Value A consistent view of status, accountable owners, and unresolved risks.