



# tuple()

Markesman Group | Alion Science & Technology



## **MANAGED, CAPABLE, AND SCALABLE**

Markesman Group leverages its SBA approved Mentor Protégé relationship with Alion Science and Technology, a wholly owned subsidiary of Huntington Ingalls Industries, in mentorship sessions, quality management support, program management office scalability, and quality support. Together we have crafted a custom plan for Markesman to achieve ISO 9001:2015 Quality Management System certification, enabling growth from small to large scale operations. Together, we have implemented compliant systems that follow regulations and learned from the history of Alion.

## **DEEP TECHNOLOGY COVERAGE AND STREAMLINED INTEGRATION**

Hill ranked #4 in top contractors in 2020 performing AI solutions to the US Government. Additionally, Hill develops solutions in Big Data Architecture, Natural Language Processing, and Nuclear services. Markesman Group's connectivity in the new technology community across major metropolitan areas enables technology scouting, testing, integration, and ultimately a streamlined convergence towards national security uses.

## **THE POWER OF "TWO"**

**Tuple provides mission operational expertise enabled by tech forward development in a "power of two" dynamic. We provide our customers with commitment and capability support in a low-risk, innovative mission environment.**

## **CUSTOMERS WE PROUDLY SERVE**

United States Air Force  
United States Army  
United States Navy  
United States Space Force  
National Geospatial-Intelligence Agency  
Defense Information Systems Agency  
National Institute of Standards and Technology  
National Security Agency  
United States Cyber Command  
Defense Threat Reduction Agency  
Defense Counterintelligence and Security Agency  
Defense Intelligence Agency

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(SBA approved MPJV)

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# CORE CAPABILITIES AND DOMAINS

## IT/CYBER SYSTEMS

The information networks in which our clients own, operate, develop, and maintain require the foresight and capacity to support the enterprise at scale. Through the power of two dynamic, we implement interdependent technologies in cross domain environments across the defense and intelligence ecosystem. Understanding complex enterprise IT systems provides more efficient, timely, and operational resilience.

- a. System Architecture
- b. Sensor/Collection systems
- c. Dual-purpose (RX/TX)
- d. System Administration
- e. Network Administration
- f. Help Desk

## CYBER OPERATIONS

Leveraging the analytic mission expertise of Markesman with Huntington's growing operational support of US CYBERCOM and USAF, Tuple has broader reach to expand target access in order to collect more intelligence and increase effects against foreign adversaries.

Based on deep customer history that HII brings, Tuple is able to address emerging capabilities and vulnerabilities in space, as well as staying ahead of threats with threat hunting, OCO TTP development and planning, and ISC/SCADA network defense.

- a. Analysis and Reporting
- b. Planning/Exercise Support
- c. Execution and Assessment
- d. Network Forensics, Analysis, and Incident Response
- e. Operations and Training
- f. Innovation and Sustainment

## CYBER CAPABILITY DEVELOPMENT

HII's deep engineering experience developing some of the most impactful cyber capabilities leverages Markesman Group's understanding of cyber effects to create end products for optimal mission outcomes. Using niche expertise across a variety of platforms (x86-64, ARM, System on ChipS) we are able to engineer for specific use cases. Our combined experience provides customers more extensible and adaptable tools that can quickly be reconfigured and deployed for alternate missions. Our team develops capabilities to endure vulnerability disclosures and counter-attacks, sparing lengthy development schedules and cost increases from delaying the next critical operation to stop a cyber adversary.

- a. Offensive Capability (RE, VR, Exploit/Implant Development)
- b. Defensive Capability
- c. Situational Awareness Capability
- d. Operational Platforms
- e. Analytic Platforms

## CYBER POLICY, STANDARDS, AND GUIDANCE

For the past 20 years, HII has been at the forefront of creating cybersecurity guidance that helps shape implementations across the federal government. Coupled with Markesman's operational cybersecurity expertise, we can provide the talent and expertise to not just secure a system or network, but to quickly and effectively resolve any issues that arise during the implementation of security policies. Our hands-on experience combined with our understanding of the policies and the meaning behind them provides a more holistic approach to cybersecurity while accelerating the pace at which our customers achieve authorization to operate.

- a. Framework Development
- b. Standards Development
- c. Implementation Guidance

## BIG DATA

Markesman's cyber experts analyze data from thousands of sensor feeds, trying to find the needle in the haystack that identifies which adversary breached a network, the tools they used, and the information they've gained. HII develops and integrates the Big Data Platform capabilities the DoD relies upon for large-scale cyber analytics across all security domains. Together, our customers can leverage a turn-key cyber analytic solution with the automated analytics developed by HII's BDP engineers and Markesman's expert cyber analysts.

- a. Curation and Acquisition of Data Sources / Providers
- b. Integration and Processing Systems
- c. Analytic Automation (AI/ML)
- d. NLP (LlamaBERT)



The Power of "Two" (Markesman Group, Alion Science & Technology)