



SEPTEMBER 2020 | NAMC MEMBER SPOTLIGHT

ARCHITECTURE, SECURITY, AND MODULARITY

AUTONOMY

COLLABORATION

MOBILITY

MODELING & SIMULATION

SURVIVABILITY

[Numurus LLC](#)

[Easy Aerial](#)

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Please make sure all information is correct and signed off on by your organization.



ARCHITECTURE, SECURITY, AND MODULARITY



Numurus LLC | Seattle, WA | **Nontraditional**

POC: Jason Seawall | jseawall@numurus.com | www.numurus.com

What are your organizational goals?

Help companies transform their products into next-generation smart devices.

What is something unique about your product or service?

The Numurus Edge Platform Interface (NEPI) is a subscription platform for managing data, software, and AI between Edge-Devices and Cloud-Services.

What capability gaps are you able to fill and which industry colleagues would you like to know about them?

Affordable smart IoT connectivity and management of defense and industrial smart devices.

Capabilities:





AUTONOMY



EASY AERIAL
SMART SECURITY

EASY AERIAL | Brooklyn, NY | **Nontraditional**

POC: Ido Gur | ido@easyaerial.com | <https://easyaerial.com/> | 

What is something unique about your product or service?

Easy Aerial is dedicated to manufacturing the most innovative, durable, mobile, and fully autonomous drone-based monitoring systems for perimeter security and mission critical ISR applications. Our revolutionary drone solutions merge advanced HD video and thermal imaging with threat detection sensor technologies to provide unparalleled situational awareness and reconnaissance. Upon receiving an alarm, the Easy Aerial system autonomously launches a drone to the alarm location, supplying real time eye-in-the-sky surveillance without any human intervention. Our designs are the premier solution for our global customer base, including the military, government, aerospace, and commercial organizations across North America, Europe, Africa, and Asia. Our designs are created to be both rugged and lightweight, secure and easy to use, and feature the utmost advanced technology while being offered at an affordable cost. The duality innate in our products reflects our uniqueness as a company and our devotion to unrivaled innovation. Our team is committed to providing the highest quality autonomous unmanned aerial vehicle (UAV) systems in the world to ensure absolute safety and cost effectiveness.

What capability gaps are you able to fill and which industry colleagues would you like to know about them?

Easy Aerial continually strives to provide optimal solutions for capability gaps through our innovative and customizable systems. A demonstrative example includes the capability gap in the requirement for routine US Air Force base perimeter security, situational awareness, and asset protection. Instead of boots on the ground circling the base and rapidly responding to the alarm location along a fence, Easy Aerial customized a disruptive solution for base perimeter and vital asset security utilizing a combination of tethered and free-flight autonomous robotic drone-based systems. These systems will autonomously provide live HD video and thermal imaging at any location within a 15-mile perimeter secured military base. This automation dramatically decreases response time, provides the security team and base personnel critical aerial situational awareness, and eliminates the risk to the security team driving at high speed while responding to mostly false alarms. Easy Aerial has identified areas of desired collaborations to merge combined technologies, providing our solutions for a rapid autonomous response for situational awareness and ISR. Specifically, we seek collaboration with sensor industry developers and manufacturers to provide alarm trigger notifications for our solutions. Another area of collaboration includes payload manufacturers, such as detectors of chemical, biological, radiological, and nuclear threats, as well as communication networks and various innovative payloads which can be mounted to Easy Aerial's autonomous systems. Other collaboration opportunities include designers and manufacturers of autonomous roving vehicle platforms to integrate with our solutions. Finally, Easy Aerial would like to collaborate with system integrators, and security and asset protection teams to provide our solutions to enhance their situational awareness capabilities.

What are you most proud of?

As a small business, founded in 2015, we put our heart and soul into our work. Our team at Easy Aerial is connected by our collective drive to create the very best products for our customers. More than just innovation and brains, we bring passion to the table. As a result, we have much to be proud of as a company. Some noteworthy examples include our extensive activities with the US Air Force, US Army, US Customs and Border Protection, and US Department of Homeland Security. Easy Aerial's tethered systems were deployed during SuperBowl LIV 2020 by the Miami Gardens Police Department to provide security and situational awareness for the event. In addition, Easy Aerial was selected for a \$1 million Bird Foundation award for Advanced Technologies for Homeland Security by the U.S. Department of Homeland Security and Science and Technology Directorate. These instances highlight some of the many successes we have achieved as a devoted, relentless, and inventive company. We continue to put everything we have into our products, and look forward to continued success in what we do, who we serve, and all that we aim to achieve.

Capabilities:

Autonomy

Security

Surveillance

Monitoring

sUAS

NGCV



COLLABORATION

ESI MOTION | Simi Valley, CA | **Traditional**

POC: Business Development Team | sales@esimotion.com | <https://www.esimotion.com/> | 

What is something unique about your product or service?

We specialize in COTS and custom rugged servo drive modules and rugged servo drives with built in software and oscilloscope features. We have drives not much bigger than a quarter that are powerful, shock & vibe tested which are still ruggedized.

What do you consider your organization's differentiator?

We have a great after sales service as well as pre-sales service. We offer engineering solutions and integration of our products into the clients application as well as tailored customized solutions to fit any application.

Which Government Customer would you like to pitch your organization to?

All of them! We have drives for AUV's, ROV's, Ground Vehicles, Air vehicles and Space! We are confident that we have a solution for most applications, and if not, we can design and create the perfect solution.

Capabilities:

Servo Drives

Actuator

Motion Control

Controller

Integration Services

Engineering

Manufacture



MOBILITY

MGS Incorporated | Denver, PA | **Nontraditional**

POC: Erik Wilburn | ewilburn@mgsmail.com | www.mgsincorporated.com | [in](#)

What are your organizational goals?

Our mission is provide the best total solution for our customers, clients and alliance partners. These solutions are built like our products, with TEAMWORK. The combined expertise and efforts of the MGS team is what keeps us one of a kind - not one of a group!

What is something unique about your product or service?

We set ourselves apart from other trailer manufacturers because of our engineering capabilities. We have a full team of engineers in house who design unique solutions for our customers.

What do you consider your organization's differentiator?

We are experts in trailer mobility. Large or small, we are able to provide high-quality, competitively priced trailers for our customers.

Capabilities:



MODELING AND SIMULATION



SYSTECON NA | Arlington, VA | **Nontraditional**

POC: Vincent Mendoza | vince.mendoza@systecon.us | www.systecongroup.com/us | 

What is something unique about your product or service?

Systecon offers an AI enabled fleet management capability powered by our proven Opus Suite platform that correlates multiple data sets to provide comprehensive decision support for fleet and individual system health. We utilize existing data download processes to provide operational regime-based analysis. This data is drawn from established data transfer protocols in use today. Health and Usage Monitoring systems are installed on many platforms. These files are downloaded regularly by personnel and moved automatically to a retrievable location. As this data is pulled and consolidated, our software stack can interface automatically. Systecon optimizes system performance and cost, in real-time, with confidence. Opus Suite provides prototype to sunset decision support optimization for performance and cost of the system's lifecycle. Tactical AI ensures mission changes and operational impacts are integrated into the overall life-cycle plan, in real-time, providing predictive maintenance alerts and continuing to optimize the integrated logistics support plan. It's better data for faster decisions.

With a commitment to continually improving decision speed and the value of data, Opus Suite uses the three cornerstones of Lifecycle Management – information, strategy, and analysis – to provide a complete and actionable picture of a system's ideal lifecycle. Tactical AI deploys fully automated machine learning, ingesting data from weapon systems to generate complex models and data in near real-time. Tactical AI normalizes complex data sets by leveraging data transformation technologies in both cloud and on-premise environments.

What do you consider your organization's differentiator?

Preparation is a tactical advantage. Knowing the probability of mission success or when system maintenance is needed can be the difference between achievement and failure. So at Systecon, we're building a better crystal ball. Start with the unmatched analytics spectrum of Opus Suite, which combines information, strategy and analysis to provide a complete and actionable picture of a system's ideal lifecycle. Then add in the AI-driven, real-time predictive analytics in Tactical AI, which makes complex forecast a click away. Tasks that took six months may take six minutes. Vehicle-by-vehicle data presents a more complete picture of your readiness. Better data means better planning of maintenance and missions and better forecasting of the measures that will lead to success and a lower overall cost of operation.

What do you want other NAMC Members to know about you?

Systecon provides the most reliable decision support with greater speed and accuracy than anyone else. Systecon maximizes weapon system lifecycle efficiency with optimization (OPUSIO), simulation (SIMLOX) and cost analysis (CATLOC) software. With Tactical AI, Systecon increases weapon system readiness and probability of mission success via cutting edge machine-learning technology. Benefits:

- Better data quality through machine learning and continuous updates
- Faster delivery of actionable information
- Individual asset tracking providing improved insights and modeling for overall fleet management
- Increased probability of asset availability and mission success with optimized forecasts and analysis
- Lower operating cost with optimized data on your individual assets and fleet with more rapid extraction of data from vehicles
- Industry leading operational and life cycle cost forecasts
- Decision making support continually improves throughout the system lifecycle as better data shapes sharper insights.

Capabilities:

Simulation

Optimization

AI

ML

LORA

FEMECA

0007GIA



SURVIVABILITY



PLASAN N.A. | Walker, MI | [Nontraditional](#)

POC: Brad Pederson | bradp@plasan.us.com | <https://www.plasan-na.com/> | [in](#)

What is something unique about your product or service?

Plasan's goal is to be the pre-eminent provider of survivability solutions for the US military. Plasan's solutions range from integrated armor, lightweight ceramic composite add-on armor, underbelly blast protection, passive RPG protection, advanced energetic reactive armor, and energy absorbing blast seats.

What do you consider your organization's differentiator?

Plasan's differentiating characteristic is its wide breadth of capabilities and experience for all phases of creating survivability solutions:

- Plasan maintains a state of the art ballistics testing facility with the ability to test from .20 caliber to 30 mm APFSD rounds.
- Plasan employs a team of modeling and simulation scientists and engineers to predict, verify, and validate solutions as part of our iterative design process.
- Plasan operates a modern manufacturing facility with the ability to laser cut, bend, and weld armor steel as well as state of the art autoclaves for composite and ceramic composite armor manufacture.

What capability gaps are you able to fill and which industry colleagues would you like to know about them?

Plasan offers local capacity for both composite and metal fabrication. With 3 autoclaves, resin impregnation capabilities, multiple lasers with the ability to cut both metal and composite material, and over 20 Ground Combat certified welders Plasan offers turnkey fabrication with speed and quality for all your armor production needs.

Capabilities:

Survivability	Modeling & Simulation	Metal Fabrication	Lightweight Composite Armor
Underbelly Protection	Composite Manufacturing		