



SECURITY EXECUTIVE COUNCIL

A research and advisory firm

Solution Innovation Case Study: Enhancing 3-Dimensional Security Controls with Robotics

The Security Executive Council (SEC) Solution Innovation Partner (SIP) program evolved to help security practitioners expedite choosing a trustworthy risk mitigation vendor with confidence given the myriad of viable options in the marketplace. Proven Solution Innovation Case Studies help to evaluate performance claims and differentiate security solution providers for business outcomes including risk mitigation, return on investment, and security assurance.

This case study demonstrates Asylon Robotics' innovative capabilities to enhance security operations and efficiency with Asylon's DroneDog™ security robot, Guardian™ security drone, and DroneIQ™ integrated software. The SEC and the client end-user validated this case study.

Overview:

A Fortune 500 corporation required an advanced security solution capable of providing extensive operational safety and security surveillance across their large campus. Their 120-acre corporate campus, situated in a forested suburb, near an interstate freeway, was designed to feel open and inviting. The location posed significant challenges in properly protecting the campus at the property perimeter.

Traditional security measures, like fences and gatehouses, were not viable options, as they would detract from the welcoming environment the business aimed to create. Security officers patrolled in marked vehicles, and Closed-Circuit Television (CCTV) systems were strategically placed around parking lot poles and building perimeters to monitor public areas and parking lots. Yet, these methods provided limited situational awareness, particularly from the property's woodland and non-public access areas.

Risk Issues and Mitigation Opportunities:

- Sprawling Campus:** Campus culture and natural habitat size were meant to be inviting. The addition of new cameras to fully cover the area was neither financially nor technically viable.
Mitigation Opportunity: Deploy an all-terrain drone and dog robot to cover large, unlevel areas of the property with high-quality, advanced camera system surveillance to allow a SOC operator to effectively monitor the area.
- Limited Patrolling Oversight:** Officer performance for patrols and inspections is primarily based on verbal confirmation of situational risk information which can be insufficient or unreliable.
Mitigation Opportunity: Confirm and audit robot and drone capabilities for patrol performance via the integrated software and video recordings.
- Unauthorized Access to Facilities:** Private facilities can be publicly accessed during business and off-hours, leading to people's safety risk and property damage concerns, including business interruption or liability. One additional risk was the campus recreation facilities and

- fields where unauthorized users were often found. *Mitigation Opportunity*: Use integrated aerial drone and all-terrain ground robot for 3-dimensional, access control quality assurance.
4. **Security Personnel Safety**: Ensuring the safety of employees and security personnel in the event of an escalated event (e.g., active shooter, assault, stalking, etc.) is a key priority. *Mitigation Opportunity*: Leverage all-terrain surveillance for active monitoring, real-time intelligence, and situational awareness.
 5. **Rising Costs**: Rising inflation and labor costs can lead to tightened budgets. *Mitigation Opportunity*: More cost-efficient robot and drone use, qualifying fewer officers for higher tasks and pay; lower total cost of security operations, and improved risk outcomes.
 6. **Rapid Response**: Swift risk detection and effective responses to potential security threats is paramount. Traditional security practices often result in delayed threat detection and response, primarily due to the limitations of human patrols and fixed camera systems. Officers found themselves in potentially harmful situations with little prior knowledge of the threats they might encounter. *Mitigation Opportunity*: Security robotics enables rapid response to a detected threat, and real-time risk situational understanding before responding with greater confidence.
 7. **Brush Fires Near Smoking Areas**: Littered cigarettes in smoking areas led to multiple mulch fires on campus. *Mitigation Opportunity*: Use integrated thermal cameras to monitor pre-event fire, smoke, or warm cigarette hazards.
 8. **Employee Parking Lot Safety**: Employee, contractor, guest, and visitor safety improvement by effectively monitoring the parking lot during shift changes. *Mitigation Opportunity*: Pre-emptively patrol/monitor parking lots to instill confidence in the safety and security of personnel and personal vehicles.
 9. **Security Officer Attraction and Retention**: Second and third shifts are particularly difficult to hire and retain security officers for staff. Officers can call in sick, opening risk if the shift is not immediately filled. *Mitigation Opportunity*: Creating working schedules with robotic partners, covering exterior patrolling and alarm response missions, helps.

Solution Requirements:

- **Extensive Surveillance**: Required a solution capable of providing comprehensive coverage without installing a new and intensive camera network.
- **Real-Time Monitoring**: Needed advanced, remote analytic, monitoring capabilities to enhance situational awareness.
- **Rapid Response**: Solutions that could be quickly deployed in response to alarms or anomalous suspicious activities.
- **Automated Operations**: Reduce mundane and unskilled human duties to free up security personnel for strategic tasks.
- **Safety Assurance**: Improve the safety of security personnel through advanced detection and monitoring capabilities.



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- **Operational Efficiency:** Reduce reliance on manual patrols to enhance overall efficiency and resource allocation.
- **Cost-Effective Solution:** A solution that could help pay for itself and provide significant value (lower cost, better risk outcomes) without high capital investment.
- **Seamless Integration:** Easily integrate with the existing security infrastructure.
- **Zero Additional Headcount:** No additional staff required. A full-service solution, including operation, monitoring, maintenance, compliance, and program management.
- **24/7 Availability:** Vendor-provided and fully staffed 24/7 remote operations center to ensure robots and drones are actively operated and monitored.

Delivered:

- **Full-Service Solution:** Operational expertise and rapid support provided for full program management. Has included the safe operation of over 3,000 aerial Guardian™ flights and over 15,000 miles patrolled with DroneDog™. Over 200 security events identified and reported directly to security team. Installed and deployed within 4 days.
- **Automated Patrolling:** DroneDog™ performs regular patrols, reducing workload on security personnel and ensuring continuous monitoring. Battery life meets/exceeds expectations.
- **Advanced Sensors:** High-definition and thermal imaging cameras on DroneDog™ provide real-time data and detailed monitoring via Asylon's DroneIQ™ system to the onsite SOC and Asylon RSOC.
- **Navigation and Terrain Management:** DroneDog™ navigates complex terrains, ensuring comprehensive coverage. Guardian™ can avoid ground-based hazards by flying above them through 3D geofencing and pre-programming.
- **Aerial Surveillance:** Guardian™ offers a bird's-eye view, identifying potential threats and covering extensive areas.
- **Quick Deployment:** Guardian™ can be rapidly deployed for timely and effective alarm response.
- **Seamless Integration:** DroneDog™ and Guardian™ integrate with DroneIQ™ software for a unified security solution. DroneIQ™ is an open platform, capable of integrating with 3rd party intrusion panels, sensors, and IoT devices while empowering security teams with high-quality, real-time intelligence.
- **Real-Time Data Analysis:** Provides analytics to help security teams make informed decisions and respond effectively.
- **Historical Analytics & Reporting:** Monthly analysis reports to track KPIs and long-term security trends.
- **Robotics Security Operations Center (RSOC):** Support from a highly qualified team of security professionals that proactively interface with the local Campus Security Team on all issues noted or elevated. Enhanced team includes licensed drone pilots and appropriate licensing for FAA-compliant remote operations; and is supervised by proven leadership during event management.



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Outcome and Benefits of Service:

Some of the benefits yielded by the implementation of Asylon's full-service Guardian™ and DroneDog™ solutions:

- **Time and Cost Savings:** Use of cost-effective and operationally-efficient drones and robots allows offloading of traditional patrolling tasks with cost avoidance or savings. The company saved approximately \$200K in Security Officer costs in Year 1.
- **Total Coverage of Facility:** Through the combined aerial drone and ground-based robotic systems deployed at the campus, there is complete camera coverage for the entire facility.
- **Brand Reputation Improvement:** Through public relations and social media campaigns, the corporation has used the branded drone and robot to highlight their corporate care objectives while embracing digitalization and innovation.
- **Centralized Video Management:** DroneIQ™ software allows for remote monitoring and control, enhancing operational efficiency. All recordings made securely available for review, quality assurance, and investigations.
- **Improved Ground Patrol Quality and Frequency:** Approximately every hour, DroneDog™ completes a full human-monitored tour to verify inspection points and areas of interest.
- **Improved Employee Safety:** Drones and robots, actively enable remote monitoring in real-time by staff to assess danger for potential responders. Improved situational awareness and threat detection helps ensure the safety of security personnel. HR uses the solution as an attraction and retention of talent tool.
- **Zero Headcount Add:** The full-service program management of these systems results in cost reduction from traditional methods and resulted in zero additional burden on local staff, thus improving the quality of work.
- **Data-Driven Insights:** Real-time data collection and analysis allow more proactive security measures. Long-term historical data tracking has led to facility improvements.
- **Enhanced Surveillance:** Comprehensive surveillance significantly enhanced the safety and security preparedness posture at the corporate campus, allowing for more risk.
- **Improved Response Time:** Rapid deployment of Guardian™ reduced response time and improved active incident management capabilities.
- **Operational Efficiency:** Routine and automated patrols by DroneDog™ with human-in-the-loop verification reduced the reliance on manual patrols, freeing up on-site security personnel to multitask.
- **Software-Driven Patrol Accountability:** All telemetry data and patrols are securely managed, logged, and stored within Asylon's DroneIQ™ software. The software, with robust reporting and transparency built in, helps ensure that patrols occur at both the frequency and quality as intended.

"Our partnership with Asylon has allowed us to leverage cutting-edge technology to protect our people and assets while improving campus safety. The seamless integration of real-time monitoring



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is invaluable. DroneDog and Guardian have significantly improved our surveillance capabilities and response times. Asylon’s customer service is phenomenal. Our Security confidence was 5 out of 10 before the Asylon deployment and then 7 out of 10 after Asylon deployment” – Physical Security Systems Manager

SIP Case Study Authentication Process

This process was overseen by a Security Executive Council subject matter expert with 20+ years of experience in developing and leading people and asset protection programs as a trusted security advisor for global, multinational organizations. **Client end-user authenticated May 2026.**

Note: The Security Executive Council's Solution Innovation case study represents a snapshot in time to demonstrate a solution to a specific organization's issue. End-user diligence, trial and measurement are strongly recommended for any contemplated risk mitigation activity.

A General Comparison of Competition

Client Service/Resource Attributes or Capabilities	Asylon Robotics	Security Robot Company A	Security Drone Company	Security Robot Company B
Complete Program Management & SLA	YES	PARTIAL	NO	NO
Aerial Drone System	YES	PARTIAL	YES	NO
Ground Robot System	YES	YES	NO	YES
24/7/365 Robotic Security Operations Center	YES	NO	NO	NO
Common Operating Platform	YES	YES	YES	YES
AI Analytics & Reporting	YES	YES	YES	YES
Security Alarm & IOT Integrations	YES	PARTIAL	YES	YES
Customer Access to Live & Recorded Videos	YES	YES	YES	YES
FAA Regulatory Compliance	YES	NO	NO	NO
Licensed Drone Pilot Staffing	YES	NO	NO	NO
Templated Beyond Visual-Line-of-Sight (BVLOS) Waiver Process	YES	NO	NO	NO
Scheduled and Unscheduled Maintenance	YES	YES	PARTIAL	PARTIAL
24/7 Customer Support	YES	YES	NO	NO
Human-Verified Alarms & Security Events	YES	NO	NO	NO



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Ability for Robot to Traverse Unstructured Terrain like Rocks, Grass, Curbs	YES	NO	NO	NO
U.S. Department of Defense Contracts	YES	NO	NO	NO

Learn More

For more information on how Asylon’s security solutions can benefit your organization, visit [Asylon Robotics](#).

[View a short video about Asylon Robotics](#)

See other case studies and learn more about the SIP Program here:

<https://www.securityexecutivecouncil.com/solutions/vendor-innovations>