

Domain Awareness

2021

FrostyFlake | Real-Time Weather Monitoring

Many organizations rely on inaccurate and ill-timed weather information, generally in the form of forecasts or disjointed physical observations of the weather. Often, there are also challenges in properly communicating this information to key stakeholders and teams. Leading to increased risk, liability, and costs, while decreasing operational effectiveness, security, and customer service.

The FrostyFlake weather monitoring service solves these problems. FrostyFlake is NOT another forecast but monitors the weather in real-time and notifies customers about their selected weather conditions as they happen. FrostyFlake uses proprietary artificial intelligence in conjunction with established nationwide camera systems to effectively “watch the weather”.

Emergency Evacuation Location System

This innovation is an emergency rescue IoT data platform, providing accurate real-time location information. Installed in occupied structures, the system can populate an emergency conditions map with executable data accessible to First Responders from anywhere in the US and send text to emergency call centers. Rescue locations are quickly conveyed by GPS while high-capacity exterior indicators ensure quick visual location for aerial recon and ground-based SAR assets. As a non-mobile phone dependent system, rescue notifications are sustained by battery backup when internet access and building power fail. Activation is protected by unique encryption keys preventing false alarms. This innovation creates a novel approach to strengthen interoperability between key emergency stakeholders.

Security and Environmental Awareness Virtual Reality Simulations

Our virtual reality (VR) hostile environment awareness simulations prepare individuals for difficult and dangerous scenarios during missions abroad. In our customizable VR simulations, individuals observe environmental cues, make decisions, and experience the consequences of their decisions. A VR headset transports learners to immersive, realistic environments where they practice de-escalation techniques in virtual replicas of informal checkpoints, detention centers, and kidnapping scenarios. VR simulations and debriefings train people for different missions in an engaging, time and cost-effective manner.

“One Touch” Rope Tie Down, Self-Tensioning Device

“ONE TOUCH” Rope Tie Down and Cargo Nets are self-adjusting devices providing the power of communication enabled cargo management. **“Smart” Rope & Webbing** will generate warnings and alerts if there is a problem due to load shift, loose device, tampering, or theft. Time saving safety features, fewer accidents, will benefit the entire transportation field. Less wear and tear on the user and equipment, less freight damage, lightweight, corrosion free equipment has longer lifespan with reduce fuel and replacement costs. Quickens readiness, **“One Touch, One Product”** will replace all 10K, 25K CGU / MB chain devices, simplifying storage and retrieval.

SYBor IoT Interoperability and Intelligent Video Surveillance Edge Computing Platform

The SYBor Technology Platform is the next-generation solution for facilities automation and intelligent video surveillance interoperability for monitoring and controlling one or more Internet of Things “IoT” smart device ecosystems in government, commercial and residential properties. Its state-of-the-art hardware is capable of supercomputing level performance to provide 24/7 autonomous monitoring addressing situational awareness in security, safety, cost savings, comfort, and peace of mind all in an affordable small footprint with one easy-to-use app compatible with your desktop and mobile devices. With the SYBor Technology Platform and its superior performance, we are establishing smarter, safer homes and communities.

H-Cubed Big Data Acquisition and High Performance Edge Computing

SaraniaSat’s ultimate vision is to open up and grow the relatively small market for Satellite-based Earth Observation Data to match the trillion dollar Smart Phone and Internet Data Markets. We believe that this can only be achieved via the daily acquisition and rapid Edge Processing of complex, Big Data. Multiple commercial and government verticals will benefit from daily availability of actionable information.

RFID-Enabled Smart Gun

SmartGunz, LLC is a firearms company providing next generation technology for law enforcement agencies. Our sole purpose for launching SmartGunz, LLC is to save both law enforcement and civilian lives – full stop.

The job law enforcement officers have to do is hard enough without also having to protect themselves from a suspect or prisoner wresting their weapon away from them! SmartGunz, LLC wants to remove that risk to our men and women who faithfully put themselves in harm’s way to protect us and give them one less thing to worry about.

Americans are killed or wounded every day by handguns, whether they are targeted victims of

[\(* = Poster Board is available upon request\)](#)

domestic violence, children or bystanders harmed by accidental weapons discharges, or people suffering from mental illness intent on taking their own lives.

SmartGunz, LLC believes one way to save lives lost from gunfire is to offer “smart gun” firearms technology where the firearm can only be operated by its intended user.