Israeli Innovation in Automotive Cyber Security

ARGUS
SECURITY

www.argus-sec.com

Cyber Security/Connectivity/Safety

The ready-to-embed products protect against malicious intrusions that may compromise data privacy or electronic control units. Argus enables car manufacturers and suppliers to offer connectivity without compromising privacy or safety. Argus solutions prevent recalls and apply equally to aftermarket connectivity platforms. An easily integrated and seamlessly updating cybersecurity layer uses Deep Packet Inspection (DPI) algorithms to detect OS anomalies, isolate suspicious applications, and prevent the spread of attacks.

Arilou
Automotive Cyber Security

www.ariloutech.com

Cyber Security/ Connectivity/ Safety

The Security Agent solution is an intrusion detection and prevention system that can be integrated into a vehicle's existing CAN bus and blocks any attempt by devices on the network to send illegal or prohibited messages. Security Agent aims to secure all vehicles, regardless of how vulnerable or buggy their connected devices may be.

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c2a security

http://www.c2a-sec.com

Cyber Security

Developing cyber security for connected vehicles. The solution's major features include easy integration with existing CAN bus solutions at the OEM or Tier 1 level and aftermarket; customizations based on artificial intelligence and machine learning for individual makes and models; low-cost BOM; hardware that is a simple connector using approved parts; software on one ECU with a very small footprint that doesn't require regular downloads; no CAN bus reprogramming and artificial intelligence that can minimize potentially life-threatening errors.

CARSDOME
AUTOMOTIVE SECURITY LAYERS

http://www.carsdome.com/

Cyber Security/IoT

CarsDome has developed multiple integrated platforms and layers to provide active and hermetic protection for private vehicles and autonomous vehicle technology. The IoT-Dome solution draws on multidisciplinary technology in fields including IoT security, embedded software and algorithms, mechanical R&D, cloud computing, robotics, and machine learning. IoT-Dome protection can be deployed for OEMs, Tier-1 vendors, and aftermarket vehicles.

CYCURO

https://cycuro.com/

Cyber security/Big Data/Analytics

The cybersecurity analytics platform provides real-time data on cyberattacks on vehicles. The analysis assists in damage remediation and investigation. The analytics platform draws information from multiple data sources in and around the vehicle to build a holistic cyber map of the incident. The platform provides customers with alerts on imminent attacks or telltale signs of suspicious activity. Cycuro's analytics platform is a plug-and-play solution.

ENIGMATOS http://www.enigmatos.com/ **Cyber Security**	Enigmatos provides solutions for existing and emerging car architectures. The Intrusion Detection and Prevention Solutions are based on in-car data collection on different levels – communication (e.g. CAN, Flexray, Ethernet) and other critical lines, as well as cloud-based analysis. Their Machine Learning models are tailor- made for automotive anomalies and threats.
Guard KNOX https://www.guardknox.com/ **Cyber Security**	Offers automotive manufacturers a comprehensive cyber security hardware solution, which fits the automotive value chain and alleviates the difficulties of integrating a software solution. The unique Lockdown Methodology, developed by the GuardKnox team, has been successfully deployed for use in Israel's Iron Dome and Arrow III missile defense systems, as well as the Israeli F-35 fighter jet.
Karamba Security https://karambasecurity.com/ **Cyber Security**	Prevents hackers from attacking connected cars and autonomous platforms. Karamba's embedded software eliminates cyber-related recalls, by automatically hardening ECUs according to factory settings and preventing cyber-attacks, which do not comply with factory settings.
NanoLock Security https://www.nanolocksecurity.com/ **Cyber Security/Connected Cars**	NanoLock Security patented access control platform provides a locking /unlocking mechanism, for solid-state memory, CPUs and Microcontrollers. NanoLock Security controls the ability to write to specified areas. The device's protected areas are in Read-Only by default. Remote machine to machine (M2M) unlocking can only be done using a one-time programmable (OTP) password. The device's OTP password changes after every authorized unlock.
ProtectivX AUTHENTICATION IN MOTION https://www.protectivx.com/ **Cyber Security/Connected Cars**	ProtectivX offers innovative, cloud-based security solutions for connected cars. The company is focused primarily on the vulnerabilities of connected devices, such as infotainment systems and mobile phones. The ProtectivX solution is extremely powerful, yet easy to deploy and maintain throughout the vehicle's lifecycle.
Regulus http://www.regulusx.com/ **Cyber Security**	Regulus Cyber's Pyramid is an end-to-end security solution for drones, robots, and autonomous cars and systems, which instantly creates a fully secured system, provides enhanced operational robustness, and analyzes mission big data with real-time full system security, GPS spoofing and jamming detection and mitigation, command and control link robustness, and RF mapping. Pyramid is a modular solution, easily implemented with most systems, with little technical effort. Pyramid weighs about 1 ounce (30 grams), measures about 2 inches (5 cm), and has no effect on the system's performance.

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https://www.safemode.co/

Fleet Safety

SafeMode aims to eliminate human factor accidents for fleets & MaaS platforms fleets. The platform profiles driver behavior Using Big Data& AI which affects drivers to drive safely.
Our vision is to enable autonomous vehicles to drive in the co-existence with human driven cars with predictive AI layer which predict the human drivers next actions for better autonomous decision making.

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http://saferide.io/

Cyber Security

Offers a vehicle cyber security solution, targeted at commercial fleets and private vehicles - that enables vehicle safety and protection of personal data & privacy, trade secrets, vendor reputation, business operations, intellectual property and human lives.

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http://www.upstreamsecurity.com/

Security Platform for Connected and Autonomous Fleets

A cloud-based cyber security solution that protects the technologies and applications of connected and autonomous vehicles. Upstream Security leverages big data and machine learning to provide OEMs and vehicle fleets with comprehensive non-intrusive defense.

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