Israeli Tech-Companies meet the Maritime Industry in Bremen/Bremerhaven

Catalog

The Israeli Innovation Ecosystem

Israel is a Startup nation. Around 8000 young companies have evolved from a country which has only the size of Hessen. The strong tech-orientation and out-of-the-box approaches lead to highly interesting solutions.

The country has an exciting and growing ecosystem to offer around innovations in port and logistics. Innovative technologies and solutions for the growing challenges of the maritime industry can be found in all sub-sectors. Whether that is cybersecurity and entry controls for the sensitive port area, automated monitoring of ship movements in the port area or fairways, but also hardware technologies for challenges in the infrastructure itself.

We are happy to come to Bremen with 10 interesting companies which you can get to know in this catalogue.

We are looking forward to meeting you!
Best regards,

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The Economic and Trade Mission Berlin
The Economic and Trade Mission at the Embassy of Israel in Berlin fosters the German-Israeli trade relations and technological cooperation. We support businesses from Israel with business contacts, market information and consulting services. In addition to this, we supply the German economy with information on the dynamic innovative landscape of Israel and inform on current events and possibilities of cooperation. We are part of the Israeli Foreign Trade Administration (FTA) at the Ministry of Economy and Industry, which is responsible for managing and directing the international trade policy of the State of Israel. The main fields of activity include activities for the promotion of trade and export, initiating and maintaining trade agreements for the improvement of Israel's trade conditions, attracting and encouraging German investments and creating strategic cooperation with German companies.

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Real-time Autonomous
Management of Multiple Drones

AIRWAYZ

Airwayz Drones

Categories

- Management Solutions

- UTM

- Drones

About the Company

Airwayz offers a multi-platform software that can control, manage, and automate the operation of drone fleets of different types for various missions. The solution uses a cloud-based network and decentralized swarm technology to share all flight information and enable operational coordination in real time. The Airwayz system offers several AI-based features such as multiple autonomous flight modes, advanced mission planning, remote control, and hive mode to help organizations maximize their drones' operational potential. Since the beginning of the global coronavirus crisis, Airwayz has focused its R&D efforts on improving and adapting the product for use by first responders, municipalities, government agencies, and the military. The platform enables quarantine management with features such as smart large-area scans, detection of gatherings, directing ground forces, scanning potentially infected people via an advanced thermal sensor, spraying disinfectant materials, and a pilot for dedicated deliveries of medicine with no human intervention.

Facial Recognition Technology

corsight

Corsight

Categories

- Data Protection
- Artificial Intelligence
- Privacy
- Face Recognition

About the Company

Corsight AI creates industry-leading facial recognition with unrivaled speed, accuracy and privacy. Corsight is a subsidiary of Cortica, with proprietary technology based on Autonomous AI®, developed by top AI researchers and backed by more than 250 patents.

Corsight facial recognition persists in almost complete darkness, extreme angles, moving crowds, low quality images and partially covered faces. The technology easily integrates with existing camera infrastructure, equipping security professionals with a powerful real-time and forensic solution to rapidly pinpoint persons of interest, stop immediate threats and ensure maximum safety.

Our mission is to radically enhance the world of facial recognition technologies while holding ourselves to the highest ethical standards in personal privacy protection. Corsight AI works with enterprise clients and government agencies in a variety of industries including aviation, law enforcement, retail, entertainment and more. Corsight AI has 35 employees and is headquartered in Israel, with offices in the US and UK and operations around the world.

Bringing next gen face recognition technology to increase efficiency and safety of sea ports:
- Seamless truck drivers authentication to eliminate trucks long process of entrance to the port
- Seamless passenger experience – eliminating the long waiting lines in onboarding and offboarding passengers of cruise ships
- Seamless management of restricted areas
- Seamless access control to the port's office buildings

CylusOne: Multi-Level Cyber Protection for Railway Operational Systems

Cylus

Categories

- Cyber Security

- Rails

About the Company

Cylus is the global leader in rail cybersecurity. Providing advanced solutions to protect freight, mainline, and urban companies from various threats and risks, Cylus provides rail operators with a rail-specific cybersecurity solution to ensure service availability and safety. Rail companies and operators worldwide, including major U.S. and Australian-based freight companies, use CylusOne to prevent safety incidents and service disruptions caused by cybersecurity events without requiring modifications to existing networks. With an unparalleled IP portfolio, Cylus has established itself as the pioneer and global leader in rail cybersecurity.

As digitization and connectivity continue to revolutionize the railway industry, freight trains are becoming more vulnerable to cyber-attacks, posing a direct threat to supply chains globally and highlighting the need for specialized cybersecurity solutions. The rapid advancement of operational rail technologies or Rail Tech, hyper-connectivity, and automated systems (e.g., Positive Train Control), has ushered in a new era for rail cybersecurity across the industry. Security and rail engineering teams face extremely complex and heterogeneous rail tech environments and the need to adopt new security solutions and strategies. However, security teams are still struggling to manage the entirety of their rapidly expanding rail attack surface.

CylusOne is the first-to-market, leading cybersecurity solution built specifically to offer continuous monitoring and real-time protection for the global railway industry, including global freight operators. The solution provides freight operators and transit authorities with a complete real-time cybersecurity solution that covers all rail surfaces – from trackside, rolling stock, train-to-ground communications, operations centers, and stations. Cylus's solution provides 360-degree protection for all rail systems, regardless of size and geography, enabling real-time threat detection, advanced forensics and mitigation, simplified security operations, and more.

AR/VR-based Maintenance and Training Platform

Enwize

http://www.enwize-tw.com/

Categories

- Maintenance &Training

- Maritime& Sea Ports

- Energy Utilities

- Transportation

About the Company

Enwize develops advanced guidance software solutions that guide technical teams through every step of the procedures they execute. The company is led by a team with extensive experience in developing AR/VR applications and training solutions.

Enwize is led by a team with years of extensive experience developing leading software and working with companies and organizations in various industries around the globe.

Without efficient training and maintenance solutions in place, organizations face significant monetary losses due to human errors, equipment damage, and wasted working hours. With Enwize's advanced technology solutions, technicians benefit from an advanced and reliable tool in their toolbox that guides them from their first day on the job. This results in a significant increase in safety to personnel and a reduction in human error, damaged equipment, support costs, time, and more.

WIZRD software, powered by Enwize, uses **Augmented Reality** and **Virtual Reality** to guide technical teams and ensure they perform maintenance tasks correctly and efficiently. WIZRD prevents errors due to lack of experience, or skills. The application is available to field workers on their smartphones, tablets and AR/VR glasses.

WIZRD bridges the gap between field workers on site and the organizational DB, leading to **AI data-driven decision** making, high-end knowledge management, and improved operation.

WIZRD reduces downtime, operational costs, training costs, and increases sustainability and safety. It assures that knowledge is preserved and becomes public domain within the organization.

Enwize's main target markets are energy utilities, renewable energy, maritime and land transportation, production lines and OEMs.

Among Enwize's customers and POCs are Israel Electric Corporation, Ashdod port, NS, RAFAEL Advanced Defense Systems, Solaredge, ELTA, ISCAR and more.

Video Analytic and 3D image processing Observation systems

MAGNA BSP

Categories

- Perimeter Security

- Port entry Inspection

- Crane Inspection

- Control& efficiency

About the Company

Magna BSP provides 3D video surveillance solutions for borders, airports, seaports, nuclear facilities, and other critical infrastructure. provides automatic detection on dynamic & static objects, Depth perception, notifying about the size and distance of an object (Magna patent).

Magna BSP's self-learning algorithms based on Artificial Intelligence & Deep Learning, enable 3D image processing in less than a second, delivering 100% reliable target detection and recognition can distinguish between human, animal, and plant movement in real time.

Artificial intelligence capabilities in port operation

- Intruders Detection (swimmers, ship, boat, smuggling)

- Secure Ports, Oil rigs, Nuclear power plan

- Port entry inspection, Ship identify and tracking

- Unique and innovative software, inspection and control for Dry Bulk Carrier, using cameras and real-time software

- LPR trucks in the collection of the material

- Alerts about safety and environmental incidents

Perimeter
Security Radars

MAGOS

Categories

- Perimeter Protection

- Radars

- AI Classification

- Video Analytics

About the Company

Magos Systems was founded in 2010 with a vision to bring advanced radar technologies to the civilian markets. The company offers extensive know-how and specializes in the development of innovative, high-performance, cost-effective radars. Magos' perimeter security solution seamlessly integrates with many VMS and camera models, and together with its unique AI Technology provides exact video-based object classification to cut down nuisance alarms to near zero without compromising threat detection capabilities. With a broad international experience in hundreds of installations for over 40 countries, Magos Systems provides comprehensive and advanced security solutions for multiple verticals.

Seaports are gateways to trade and commerce, which makes them prime targets for criminal activity like theft, vandalism, and terror attacks. As they cover a wide area, they require an effective solution that can detect different targets in all kinds of weather and lighting conditions.

Magos Systems' radar technology enables seaports to deploy a reliable yet cost-effective solution that can effectively monitor large and remote areas. Unlike other security solutions, Magos radars have minimal infrastructure and maintenance requirements, and integrate seamlessly with a wide range of security systems, including VMS, PSIM, Access Control etc. By combining radar technology along with MASS and advanced AI algorithms, Magos Systems offers comprehensive perimeter protection. As the Magos radar tracks different targets, MASS+AI provides video-based object classification, including people, vehicles, and boats. It can also filter out irrelevant alerts caused by wildlife and fauna surrounding seaport sites without compromising threat detection.

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Fusion Sensor Technology and Safety Systems for the Railway Industry

Categories

- Transportation
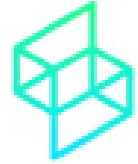
- Machine Learning

- Alert System

- Road Safety

About the Company

Rail Vision is the leading provider of obstacle detection & classification systems in the railway industry. With the company's unique cognitive sensor fusion technology, based on advanced electro-optic sensors, artificial intelligence and deep learning, Rail Vision systems detect objects on and along the tracks from a distance of up to 2km – in real time, as well as in all weather and light conditions.

When an obstacle is detected, the system sends visual and acoustic alerts in real-time to both the driver and the command-and-control center. Tailor made to meet the customer's specific needs, the systems are available for Main Lines and Shunting Yards, as well as Light Rail Vehicles (LRVs) operating in urban environments. In addition, Rail Vision offers a range of optional complementary features based on collected and analyzed data: image-based navigation, GIS mapping and predictive maintenance.

Together with our partner Knorr-Bremse, a world-leading manufacturer of braking systems for rail and commercial vehicles, Rail Vision is able to provide you local services shortening our response time.

The only zero-touch supply chain lifecycle solution

S E N S O S

Categories

- Supply Chain Management

- Inventory Management

- Logistics

- Cold Chain

About the Company

Sensos™ is a fast-growing company, which was spun off from Sony to deliver a cutting edge zero-touch IoT supply chain visibility & management solution. The Sensos solution is disrupting today's supply chain industry bringing a unique combination of both an innovative in-house developed device and cloud-based platform driven by advanced algorithms and machine learning (ML). Our solution is making a real difference in an industry that represents more than 10% of the world's GDP and is already being adopted by market leaders in agriculture, medical devices, pharmaceutical, automotive and logistics segments.

Climate-Resilient Infrastructure

SNOWLESS

Categories

- Temperature Control Technology

- Climate Resilient

- Weather forecasting control

- Reactive real-time data analysis

About the Company

SNOWLESS is a real-time reactive, autonomous temperature control technology for climate resilient infrastructure offering disruptive snow-melting/deicing, low temperature cracking prevention and frost protection. Constructed with proprietary amorphous alloy heating elements and controlled by climate analysis algorithms, SNOWLESS guarantees superior energy efficiency.

System Advantages
- Patent-pending technology.
- Up to 60% cost savings vs. existing technologies.
- No maintenance.
- Low temperature cracking protection.
- Frost heaving prevention.
- Ultra-fast snow-melting.
- Compatible with green energy.

WINDWARD °
The Power of Maritime AI

WINDWARD

https://windward.ai/

Categories

- Competitive intelligence

- Congestion & efficiency insights

- Performance benchmarking

- Artificial intelligence (AI)

About the Company

Windward's **Ports and Terminal Insights** solution leverages unparalleled insights on the movement of all container vessels between ports and terminals to offer unbiased, precise, and actionable insights on the performance of ports & terminals:

- **Geofence-based transit times and congestion visibility:** Access the most accurate insights on the time it takes for vessels to berth at your and other ports and terminals, including over time to assess change in congestion levels.

- **Measure and benchmark efficiency:** Receive actionable insights on your vessel turnaround efficiency by TEU capacity, or other criteria, and see competitors' times.

- **Track global and regional trade lane trends:** Make sense of market trends by understanding the movement of vessels and goods across accepted trade lanes and/or your own specific routes.