



# TAIROA Taiwan

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August 2023  
**Smart Manufacturing**



## ISRAEL EXPORT INSTITUTE

### Advanced Manufacturing Sector

**The Israel Export and International Cooperation Institute**, supported by firms, private sector and the government of Israel, advances business relationships between Israeli exporters and overseas businesses and organizations. By providing a wide range of export-oriented services to Israeli companies and complementary services to the international business community, the Institute helps build successful joint ventures, strategic alliances and trade partnerships.

The Israel Export Institute (IEI), operate with over 300 exporting companies in the **Advanced Manufacturing** arena.

This industry combines various technologies for Operations Optimization, Maintenance, production line automation, robotics in factories, 3D printing, cyber security in factories, and more.

The Advanced Manufacturing Sector in the Israel Export Institute aims to promote the Israeli most cutting edge technologies in these domains on different platforms such as international exhibitions and conferences around the world, providing scouting services , delegations to create business partnerships .

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## ESGgo

Enterprise ESG Management Platform

<https://www.esggo.com/>



### Categories

ESG Assistance

### Profile:

ESGgo provides an ESG operating platform designed to provide global companies with a one-stop shop for all of their ESG data needs. The company's powerful proprietary data engine helps companies collect the hundreds of ESG data points from across the organization and normalizes and standardizes them according to the different reporting frameworks.

ESGgo's collaborative tool is designed to simplify work streams and collection processes between different departments while continuously monitoring, analyzing, and presenting the company's ESG status. ESGgo's benchmarking tool presents the ESG status of peers and competitors, and it compares and optimizes their ESG reporting and scores.

ESGgo was formed by a group of experienced business professionals and technology experts from Facebook, Google, and McKinsey along with teams from the top Israeli army technology units, with the shared goal of making a positive impact both on business and on the world.

## GOARC

<http://go-arc.com/>

Digital Safety Solutions for Industrial Environments

### Categories:

Digital Safety

### Profile:

GOARC aims to revolutionize the practice of industrial safety for the era of Industry 4.0. The company's Safety 4.0 platform delivers a digital safety solution with real-time, company-wide centralized data visualization, providing a 360-degree view of an organization's workforce and assets for improved risk management; environment, health, and safety performance; and workforce engagement. GOARC delivers a real-time view of a plant's operational reality and connects people by bringing together disparate data from across multiple systems, sensors, and human-derived activities to provide meaningful and actionable insights.

By extracting real-time asset data from existing enterprise systems and third-party sources (IoT), while integrating direct data provided by the connected workforce and employees across the company, GOARC enables optimal execution in dynamic industrial environments.

### Nanomaterial-based Sensing Solutions for IoT Applications

<https://www.feelit.tech>

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#### Categories

##### Inspection and Testing

Feelit develops and provides sensing solutions enabling real-time insights, empowering manufacturers to transform the way they manage their critical assets.

Feelit enables users to improve uptime, as well as reducing asset cost of ownership, and safety risks.

The patented end-to-end agile, sensing and analytics solutions can be deployed and scaled across a diversity of industrial equipment. The solutions are non-intrusive, require zero downtime, are easily installed, and have been designed for harsh environments.

The solution utilizes Feelit's ink-based sensing technology which combines a printed nanotechnology sticker sensor and a wireless edge device, that can detect parameter changes and predict upcoming failures in the manufacturing and process systems.



## Jiga

<https://www.jiga.io/>

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Automated Sourcing Management Platform for Hardware Companies

### Categories:

Operations Optimization- IoT Platforms & Connectivity

### Profile:

Jiga provides a platform that enables hardware companies to centralize their requests for quotes, purchase orders, and supplier communications while automating their sourcing processes.

Jiga aims to help its customers get to market faster with optimal costs, quality, and lead times instead of spending hours on quotes, orders, and administrative work.

### CMOS Image Sensor Chips for Machine Vision and Spectral Analysis

<http://www.nstimg.com/>

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#### Categories

IoT Platforms & Connectivity

#### Profile:

Newsight Imaging develops advanced complementary metal oxide semiconductor (CMOS) image sensor chips for 3D machine vision and spectral analysis. The company's depth camera sensors for machine vision specialize in highly reliable, accurate, portable, and affordable 3D image sensing.

Newsight's sensor solutions serve verticals such as mobile, robotics, Industry 4.0, augmented/virtual reality, automotive, safety, and surveillance. Its time-of-flight (TOF) technology enhances short-distance indirect TOF and provides accurate depth sensing for longer distances, even outdoors.

The company has also developed an AI-based spectrometer-on-chip, SpectraLIT. SpectraLIT offers a solution for remote health, real-time diagnosis, and quality inspection solutions for water, food and beverage, and more.

Newsight Imaging has 14 US and EU patents. It has received three grants from the Israeli Innovation Authority and was named a cool vendor in "Cool Vendors in Novel Sensors" by Gartner. The company has signed agreements with Mekorot, the national water company of Israel; partners in Hong Kong who will license the spectral technology; and a hospital in Israel, following a pilot for virus detection.

# VocalZoom

Advanced Sensing Technology for Industrial IoT

<http://www.vocalzoom.com>

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## Categories

Sensing & Imaging

## Profile:

VocalZoom has developed ultra-small, low-cost, non-contact vibration sensors (laser sensors) for use in industrial IoT applications. The company's sensors are designed to enable faster and easier deployment of predictive maintenance solutions, with minimal integration costs and downtime.



## RobotAI



AI-based Software to Transform Cameras into 3D Measurement Devices

<https://www.robotai.info>

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### Categories

Robotics

### Profile:

RobotAI develops software designed to teach robots about objects in the 3D world, enabling them to act and react to objects in the way that humans do. The company's AI-based software transforms any camera into a 3D measurement device. The software detects objects and extracts their position and orientation from a single camera image.

RobotAI's technology simplifies many automation tasks, including teaching robots about objects, detecting different objects, measuring an object's 3D position and orientation, and responding to the measured information.

# Pzartech



Digital Solutions for Industrial Maintenance

<http://www.pzartech.com/>

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## Categories

Maintenance

### Profile:

Pzartech develops solutions for industrial maintenance operators, including visual-recognition technologies that enable users of complex mechanical equipment to quickly identify parts using image processing and deep learning. These technologies enable maintenance operators to receive information regarding the mechanical parts they are working on using cameras from smartphones and tablets.



# Scodix

<http://scodix.com/>

Digital Print Enhancement Presses

## Categories:

Industrial Technologies

## Profile:

Scodix manufactures digital print enhancement presses for the graphic arts industry, offering print service providers the ability to create packaging, signs, and other printed materials with eye-catching colors and textures. The company's industrial-scale presses can print on a wide variety of materials including cardboard, PVC, and foil. In addition, the presses can add raised elements, glitter, and other decorative flourishes.



## Cybord

<https://www.cybord.ai/>

AI-based Visual Inspection for Electronic Component Analytics and Traceability

### Categories:

Industrial Technologies

### Profile:

Cybord's software solutions monitor placements on SMT lines in real time and eliminate the use of nonconforming electronic components during product assembly, while arming OEMs and EMSs with visibility and traceability.

Using artificial intelligence and big data, Cybord's technology detects counterfeit, defective, and tampered components, including hardware-based cybersecurity threats. Component defects are addressed during placement and before reflow, simplifying rework and improving product reliability. By integrating with MES systems, nonconforming material is placed on quarantine and prevented from being used.

Manufacturers get a dashboard view of all assembled components, assembled boards, and traceability data from multiple production sites and contract manufacturers.

Alongside inspection, early repair, and prevention, Cybord creates placement traceability (as-made certificate) that combines material inspection, documentation, and visual imagery to establish material provenance with intelligent board/component tracking for better recall management.

# Lead Technology LTD

<https://leadpackaging.com/en/>

developing and manufacturing a variety of Cartoners, Case Packers, Tray Formers and Wrapping Machines.

## Categories:

Industrial Technologies -Packaging Machine

## Profile:

Lead Technology is a manufacturer of packaging machinery - case packers, case erectors, sleeve wrap, partial wrap, wrap around, tray erector, bag in box, bagging machines. We offer a complete line of high-quality machines and integrated systems which simplify the packaging process from flexible bags and boxes, to folding cartons, trays and cases. Customer service begins with a strong focus on the customer's needs, service, installation, technical assistance, development and the supplying of spare parts. With over 25 years of engineering and special applications upon request, Lead Technology delivers the quality and technology needed to achieve the highest optimization production in the industry. The fully synchronized product lines offer the maximum efficiency for complete customer satisfaction with the right balance of quality, performance and price. Lead Technology's advantage - Low-cost efficiency, low maintenance, easy and simple operation for any unskilled operator and very short set up time.



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