



Quantum @ CES

Jan 2023



Quantum @ CES 2023: Intro

Quantum had the privilege to visit CES 2023

CES 2023 hosted more than 4,500 exhibiting companies, showcase nearly 20,000 new transformative tech products in the fields of vehicle technology, artificial intelligence, digital health, smart home and sustainability tech, as well as new categories: NFTs, food tech, space and sea tech to more than 170,000 attendees.

The conference also included 175+ sessions with executives from all over the world talking about the future of their domains.



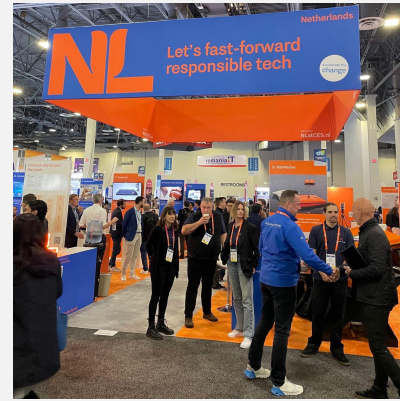
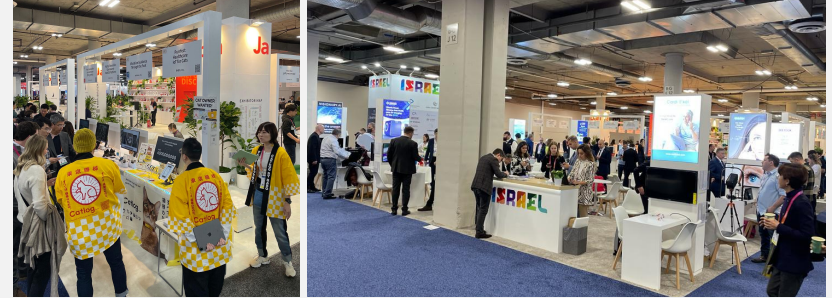


Technological Startups all over the world

Like every year the CES conference brings together the most innovative tech solutions from countries all over the world.

Some of those countries showcase their most shining startups at designated Pavilions with a purpose to push international connections:

- Israel
- Netherland
- South Korea
- Japan
- Switzerland
- France
- Belgium





Quantum & q fund portfolio @ CES 2023



Corrations showcased their solution at the Israeli pavilion, and had the chance to catch some of the leading OEM business team to explain how their technology works.



autofleet

It was impressive to see Autofleet booth at CES and to hear from them about the past year collaborations with some of the leading mobility and transportation operators.

Autofleet showcase at the booth how to plan and optimize ev fleet electrification activities, including vehicle procurement, infrastructure investments and forming a charging strategy that fits the needs and business models.



After the announcement of the partnership between Hyundai Mobis and Ottopia, the two parties joined together at CES demonstrating the remotely assisting and even driving an autonomous vehicle (AV) from 12,000 kilometers away using only public cellular networks



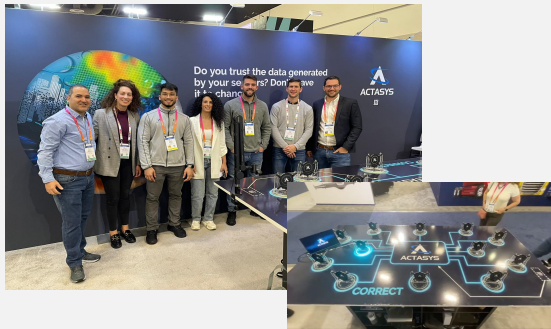


Quantum & q fund portfolio @ CES 2023

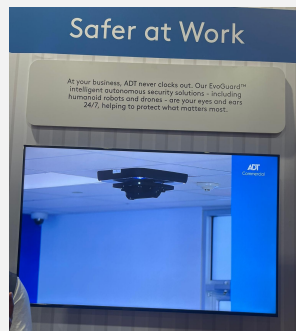


Actasys showcased in their booth the future of sensor cleaning technology and their development software that will indicated the status of sensors in the vehicle.

During the conference Actasys met with ADM the chip manufacturer to check for possible collaboration in the fields of cooling chips and electric boards.



The q fund's portfolio company presented its indoor security solution through their partnership with ADT at their booth.





Quantum @ CES Sessions

At this CES we were at the audience of interesting panels with highlight advancements sessions in the fields of automotive & energy:

Connected Mobility-The New Automotive Customer Experience :

It was interesting to hear how emerging technologies are creating a new customer journey that is redefining choice, flexibility, and moments that matter throughout the sales and service process.

Also why trust and transparency are more important than ever in building customer loyalty – and the capabilities automotive companies will need to nurture this trust.

Key speakers :

Donald Chesnut- chief experience officer @ GM

Raj Paul- Automotive Business leader America & India @ Microsoft

Renewable Energy, Renewable World :

At this session the speakers talked about 2022 and the research for new and advance technologies that can reduce the cost of using renewable energy. It was also interesting to hear how the the global supply chain problem affects the energy resources of the big corporates and how they are planning to organize the supply chain without outsource suppliers using methods like recycling energy, batteries and more.

Key Speakers:

Andrea Murphy- director of environmental affairs and Sustainability @ Panasonic

Anthony Vetro - VP & Director @ Mitsubishi Electric Research Labs



Hyundai @ CES 2023



Zero one

This CES we had the privilege to participate in a VIP tour with Dr Hawng at the ZERO1ne pavilion. In the tour we saw 10 Korean startups that partner with Zero1ne team showcasing their technology. It was also nice to see Maradin and Autofleet our portfolio companies on the wall of fame of Zero1ne::

[Difon](#)-Smart window solution

[eMotiv](#)-Improve people's cognitive status

[WonderMove](#)-Digital Solutions for mobility

[Autol](#)-LiDAR manufacturing startup

[60Hertz](#)-Energy IT solution

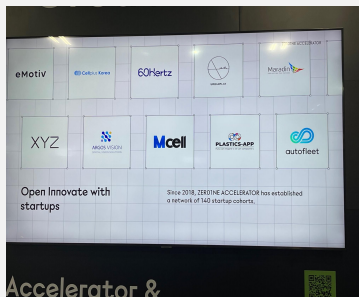
[ArgosVision](#)-Ultra-wide 3D vision sensor

[VodaAi](#)-Machine vision for manufacturing industry

[Cellplus Korea](#)-Edge computing company for AVs

[fittrix](#)-Musculoskeletal(MSK) Care Information Platform

[XYZ](#)-Service robot solutions



Hyundai MOBIS

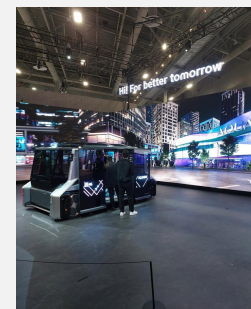
Hyundai MOBIS had an exceptional conference with the introduction of the new M. Vision Series:

M. Vision TO - Autonomously driving electric PBV concept that features integration of new technologies in its four pillars.

It is an integrated package of an e-corner system, autonomous driving sensors, communication lighting, and battery. In addition, it is possible to perform crab-walk, idle 360 turns, and diagonal drive.

M. Vision HI- M. Vision HI has a concept of immersive space and an adaptive interface developed for leisure and the outdoors.

The seating arrangement changes and transforms the cabin space into a bench, lounge, or theater. It, also as entertainment with the displays on the windows. and new advanced airbag technology to protect passengers in any seating position.





The Israeli Ecosystem @ CES

More than 52 [Israeli startups](#) showcased their technology in a private booth\pavilion or in the Israeli Pavilion.

The highlight fields were :

- Automotive
- Lifestyle
- Cyber
- 3D printing and more.

In addition, some of those startups have made some impressive announcement during the conference :

[Imagry](#) - Unlock 110GB annotated data for autonomous mobility and set to launch its first [autonomous bus platform](#)

[C2A](#) - Partners with Valeo to Enhance Cybersecurity for the Software Defined Vehicle

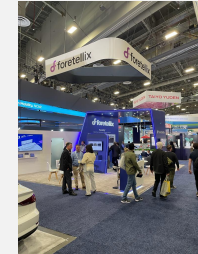
[Vayyar](#) - VinFast partners with Vayyar to enhance safety and driving experience with in-cabin radar technology

[Opsys](#) - Selected by HASCO, a world Tier 1 automotive supplier, to be HASCO's LiDAR sensor supplier for its automotive ADAS systems

[Innoviz](#) - Unveil Breakthrough Innoviz360 LiDAR at CES® 2023

[Foretellix](#)-is partnering with Daimler Truck AG Torc

[Guardknox](#)- GuardKnox Partners with Lattice to Offer Advanced Connectivity Solutions for Automotive Industry



CES 2023 Automotive News In 1 Chart



Autonomous

Not Autonomous

Vehicle

Tech

HYUNDAI MOBIS M:VISION TO Ad shuttle concept

ZF ZF next-gen shuttle with Oxbotica will come in 2025

Building eVOLT for Archer + strategic investment

AFEELA Honda and Sony announce AFEELA brand and prototype

PEUGEOT New brand design and L4 AD with peugeot inspection concept

HOLON People mover by Benteler brand HOLON with tech from Mobileye

BMW BMW iVision Dee as mixed reality companion

RAM Pick-up truck 1500 Revolution BEV concept

VW VW ID.7 with crazy paint and focus on in-car tech

FOXCONN Foxconn AD ECU platform build with Nvidia chips

Continental Strategic partnership with Ambarella for ADAS SoC and SW

BYD, HMG and Polestar BYD, HMG and Polestar to use Nvidia cloud gaming

holoride Holoride retrofit in-car VR solution for all vehicles

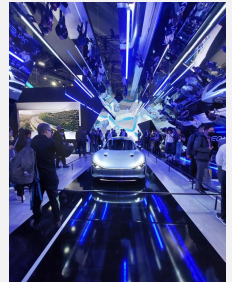
mobileye 4D radar ready for production in two years

here OEMs define ADAS/AD ODDs with Here automated driving zones

amazon Charging search and payment is coming to Alexa

Google Maps Google HD Maps coming to cars, first at Polestar & Volvo

Qualcomm SoC for mixed-critically workloads (ADAS/AD and digital cockpit)





CES 2023 Trends -

Interesting players at the Automotive World

Amazon & Microsoft Goes All In

Amazon and Microsoft speed up entry into the automotive software market and participated at the automotive sector in CES

Amazon for Automotive- Amazon introduced a service that applies its voice recognition artificial intelligence service 'Alexa' to cars. It is to provide a service that operates only with voice and turns on and off the desired function without touching the dashboard or display in the car. Amazon showcase the electric car 'Lucid' to with Alexa service in a real vehicle.

Microsoft- Showed a service that can be used for driving or vehicle repair by using its own cloud service to store and analyze vehicle data and installed a model of the inside of a vehicle called 'Oceanering' at its booth.





CES 2023 Trends - Tech Solving the World's Biggest Challenges

Teamwork Creates Dream Work

This year an important marker to take a look at is announcement and collaborations showcasing new and advance technologies between the corporates and small & medium businesses. Some of the major announcements :

- Continental partnership with Ambarella for ADAS SoC and SW
- Sony and Honda creates the AFEELA prototype vehicle
- Samsung showcase some of there partnerships products with NXP, HAIR,beko and more
- ADASKY has collaborated with Cognata and Microsoft to allow tangible web-based Thermal Camera Simulations





CES 2023 Trends - Tech Solving the World's Biggest Challenges



Mobility & Transportation

More EV's and the development of the **electrification** ecosystem, including battery design and charging systems.

Mercedes-Benz

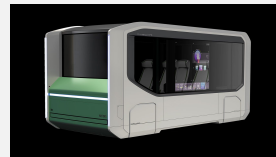
The VISION EQXX has driven as far as 1200 km on a single charge, The design is based on sustainable materials and high efficiency, with an aerodynamic drag coefficient of 0.17



Advancements in **autonomous vehicles** beyond passenger vehicles to self-driving trucks.

E-shuttle HOLON Mover by Bentler

The electric Holon Mover, designed by Pininfarina, can carry up to 15 passengers and does not need a driver,



Transformation in the **in-vehicle experience**

Samsung in-cabin experience

Samsung and Harman's ICX uses sensors and cameras to improve driving experience by detecting stress and distraction. In addition it integrated with Samsung devices.





CES 2023 Trends - Tech Solving the World's Biggest Challenges

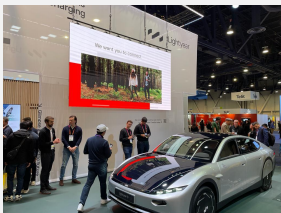


Sustainability as the CES main topic

Automotive Industry

Lightyear Solar Electric Vehicle

Lightyear is developing a solar-powered electric vehicle called the Lightyear One, which is expected to be available for purchase in the near future. It has a range of up to 1000 km on a single charge and is powered by a rooftop solar panel array.



Sustainable Home and Consumer Products

Samsung SmartThings Energy

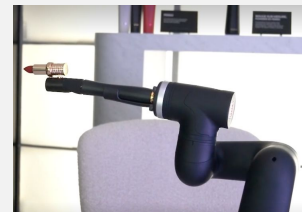
From the grid to lighting, SmartThings Energy is enhanced with partnerships to build a true net zero home: Qcells, Loop, Wallbox and more..



Accessible technology

L'Oréal new accessibility products

L'Oréal announced plans to release late this year Hapta, a computerized makeup device with motion controls, to help people with limited arm mobility apply lipstick.





CES 2023 Trends - Tech Solving the World's Biggest Challenges

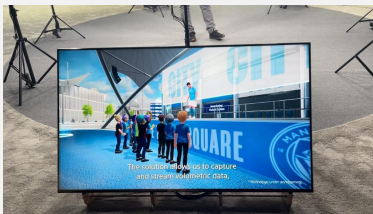


Metaverse / Web 3.0

Metaverse as part of business strategy

Virtual Fan Engagement

online fan communities and engagement through the combination of physical and virtual. In the booth, visitors experience metaverse content as if they were in the Etihad Stadium, Manchester City's home, reproduced in virtual space.



Health Technology

Home health hubs

Acer

First bike desk of its kind to experiment with powering a whole workstation using kinetic energy its new desk-bike combo



Health Technology

Pain management

Motion Pillow

A pillow and a drive unit called Motion System. When the user snores, the Motion System recognizes this and injects air into the airbag built into the pillow. Snoring can be stopped naturally from the user's head being turned or the cervical spine being lifted

