



**CES 2024**  
**FAITS SAILLANTS**

# Le CES, c'est quoi ?

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- C'est la grand messe des fabricants de matériel électronique, de logiciels et de tout ce qui y est relié le moindrement.

- Un «fourre-tout» d'items depuis le sérieux jusqu'à la «bébelle».

- Plusieurs de ces items ne verront pas le jour ou seulement dans 2 ou 3 ans.

- Des gens qui cherchent du financement.

# Historique



- Consumers Electronics Show
- Depuis 1967, à New-York
- Deux fois par année.
- Chicago : été
- Las Vegas: hiver
- Maintenant : seul LV en Janvier

# Cette année

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- Las Vegas du 9 au 12 janvier
- 130,000 visiteurs
- 4,000 kiosques
- 150 pays et/ou régions
- 1,200 «starts-ups»
- 3 sites séparés de plusieurs km

# Les Majeurs.

## FEATURED EXHIBITORS

See the companies from across the globe that will be showcasing the latest in digital health, food tech, automotive tech, NFTs, gaming, smart home and more.



**Mais un absent notable : qui ?**

# Mes trouvailles.



- Le CES a lui-même primé des innovations (471) , sur des milliers de présentées.
- J'ai pigé là dedans.
- Je vous présente 2 à 3 innovations par thème.
- Donc, choisies par ma seule suggestivité.
- Un bref aperçu.



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# Le Matériel (Hardware)

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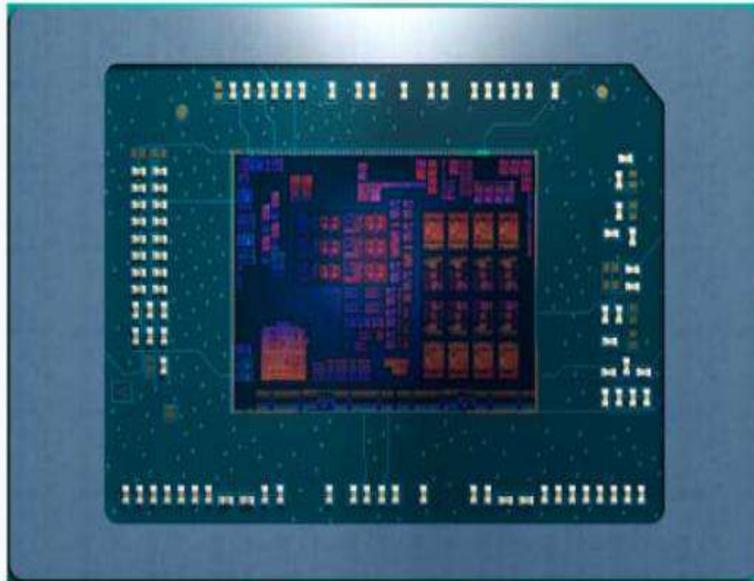


- Des microprocesseurs «spécifiques » pour le IA et l'apprentissage profond.
- AMD (Ryzen 8010)
- Intel (Core Ultra)

# Le microprocesseur de AMD

## AMD Ryzen 7040U Series Mobile processors

By Advanced Micro Devices, Inc. (AMD)

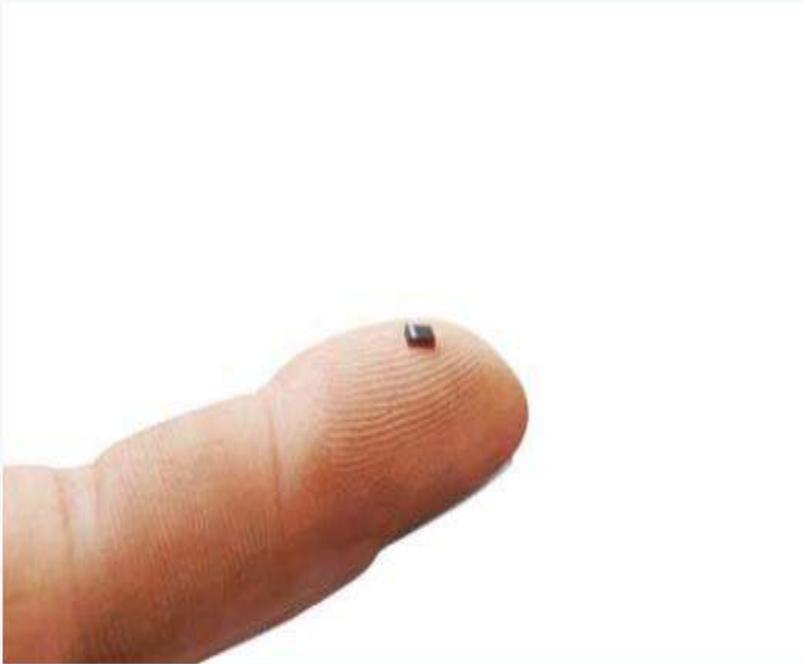


### Honoree

Computer Hardware & Components

The Ryzen 7040U Series Mobile processors are ultra-thin mobile processes that include an RDNA 3-based Radeon 780M iGPU and were the first to bring an AI engine to an x86 architecture.

# Une micro-batterie.



## Best of Innovation

Sustainability, Eco-Design & Smart Energy

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Tiny ecofriendly rechargeable solid-state battery able to deliver high power

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Je n'ai pas pu trouver les specs...mais certainement pas pour votre voiture électrique.

# Micro écran de 768 X 1024 de 3,3 mm



■ Le plus petit écran au monde



## Honoree

XR Technologies & Accessories

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This 0.13" 1024\*768 Micro-LED Display Module features ultra-high pixel density (10000ppi). With the inherent advantages of high brightness, long lifetime, and high efficiency of micro-LEDs, it is the best choice for display units of AR/XR products.

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# Des portables.....énormément

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- Une multitude de présentés.
- Un gargarisme de Mémoire, Processeurs, Cartes-vidéo, Ecrans.
- Ce n'est pas la place des tablettes...
- Le concept de «tour» n'est plus populaire.
- Coquille de Lin
- Double écrans «dépliable»

# Un portable Coque en Lin



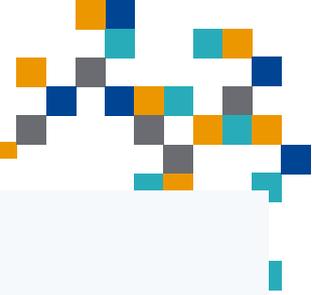
## À la recherche de nouveaux matériaux



Et si on échappe  
du café ?

Le ThinkPad Z13 de Lenovo est doté d'une coque en lin.  
(Photo : Maxime Johnson)

# Un Asus avec double écran



## Versatile Modes



**Dual Screen**

Two 14-inch displays (16:10) with integrated kickstand



**Desktop**

Portrait: Two 14-inch displays (10:16)  
Landscape: 19.8-inch display (20:16)



**Laptop**

14-inch display (16:10)



**Presentation**

Two 14-inch displays (16:10)

## Honoree

Computer Hardware & Components

The ASUS Zenbook Duo (2024) is a dual-screen laptop designed for everyone. It's the world's first 14" dual-screen OLED laptop with a built-in kickstand and a detachable full-size Bluetooth keyboard, offering users four versatile use modes including Laptop, Dual Screen, Desktop, and Presentation mode to suit any task. It aims to pass TUV, VESA DisplayHDR™ True Black 500, Dolby Vision, Dolby Atmos, and Intel Evo certification, making it perfect for both extended work sessions and leisure activities. It's powered by an Intel 'Meteor Lake' H-series processor that can easily meet the performance needs of many demanding users.



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# La santé (énorme)

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- Détection de maladie
- Suggestion de diète
- Suggestion d'exercices
- Surveillance de personnes malades, âgées, alitées
- Le concept de IOT (Internet des Objects) avec multiples senseurs.

# Marketing ....

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- Beaucoup de produits.
- A la recherche de financement, partenariat ?
- Phrase séduisante:  
«Laissez ce produit, basé sur IA, pour que vous preniez en main votre santé».

# Analyse de vos urines et plus

## Recommande diète et exercices

### Cym<sup>702</sup> Seat | Smart Toilet



### Honoree

Human Security for All

By implementing urinalysis into the daily-used toilet seat, Cym702 Seat provides users analysis of five health indicators, along with diet solutions through Cym702 Application.

The seat provides quality healthcare service in households through its convenience in use and accuracy in results, made possible by the movable gutter system.

This innovative system automates the entire testing process, from replacement of used test strips to analysis of test results, minimizing user involvement.

The measured results are integrated with wearable and IoT devices for real-time life logging, and this valuable data forms personalized smart life solutions, including customized diets and exercise plans.

# Diagnosticque Maison – prochaine pandémie



## Honoree

### Digital Health

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Introducing GenHome: the future of at-home diagnostics. Imagine rapid, precise results in the palm of your hand, merging the best of molecular and immunodiagnostic tech. Whether you're a pro or just concerned, pinpoint pathogens like COVID-19 in under 30 minutes. With isothermal amplification, we're not just talking accuracy; we're talking 100 times the precision of conventional rapid tests.

As the world changes, GenHome is not just a tool; it's a revolution for everyday wellness and pandemic preparedness. Welcome to the next-gen of affordable health assurance.

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# Gant stabilisateur - Parkinson



## Honoree

Accessibility & Aging Tech, Digital Health, Wearable Technologies

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GyroGear has developed the world's most advanced hand tremor stabiliser, and to the best of our knowledge, the first mechanical gyroscope medical device.

The GyroGlove features a high-performance gyroscope, which instantaneously stabilises hand tremors, resulting in restoration of quality of life.

Approximately 200 million individuals globally suffer from lifelong, incurable hand tremors (Parkinson's disease, essential tremor), greatly diminishing their quality of life.

Today's therapies are inadequate - medication has significant side effects, whilst surgery remains risky. Other stabilisation mechanisms are limited, and not as effective. Individuals are unable to use their hands, and face considerable social stigma.

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# La télé ...un classique du CES

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- Et cela n'a pas manqué
- LG et Samsung nous présentent la télé transparente
- Mais à quoi cela peut bien servir ?
- On veut pas le savoir, on veut le voir
- LG OLED T Signature mais on ne connaît pas le prix ...

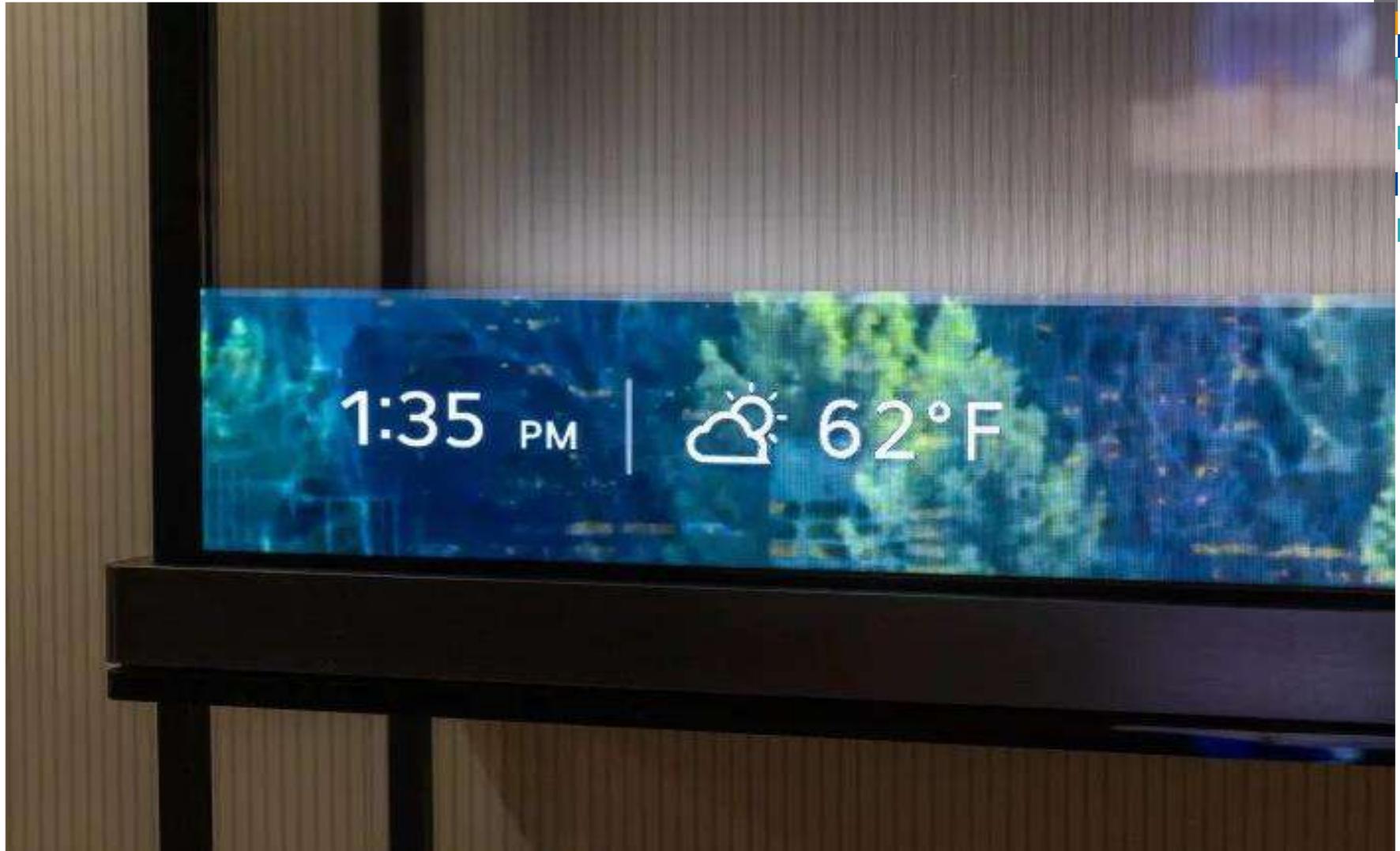
# Apparence en mode semi-transparent



# Quand on n'écoute pas la télé



# Mode semi aquarium informatif



# Nouveau type de particule OLED

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- Université Corée du Sud
- Nouveau OLED basé sur innovation chimique
- Moins cher / moins polluant
- OLED actuels à partir de terre rare
- Dans 2 à 3 ans...peut-être

# Télé – suite

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- Samsung a présenté des télévisions 8 k
- TCL, un fabricant chinois d'écran a présenté sa «plus grande télévision»: **9 pi – 7 po**
- Représentez-vous un «2 X 4»

# Bonus ...Télé

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- Les meilleures téléés présentement
- LG OLED C3 / G3
- Samsung QD OLED S955
- Attention: les OLED sont sensibles à la «rémanence» pour les images fixes.
- Alors favorisez les QLED
- Salle de cinéma; favorisez les OLED



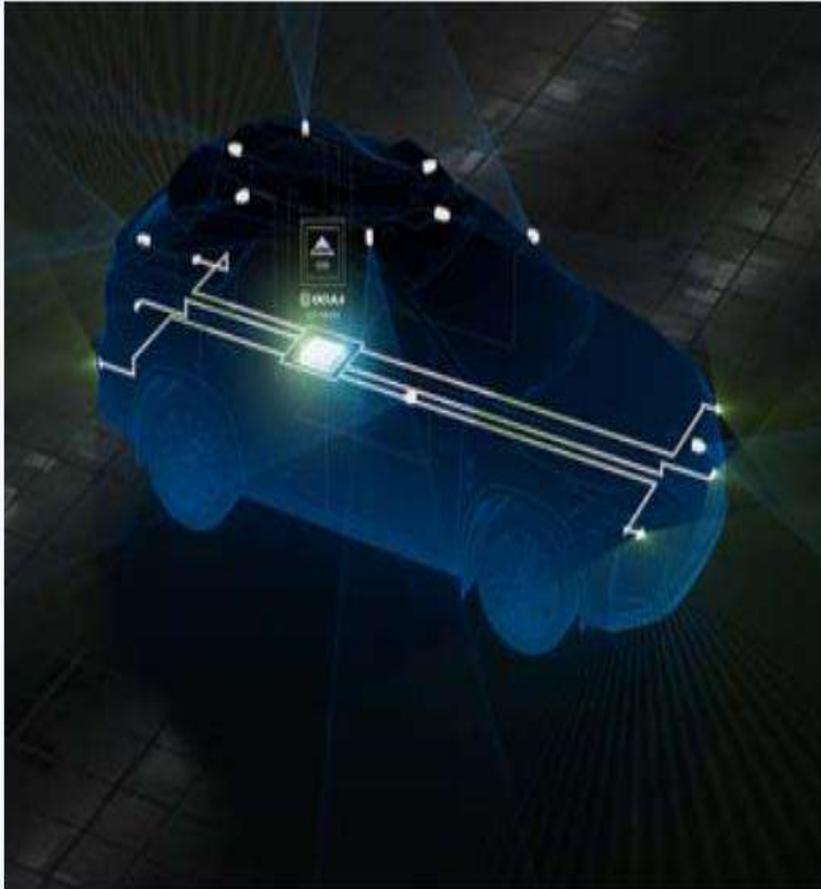
# L'automobile..aussi un classique du CES

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- AI et Chat GPT à profusion
- Volkswagen adoptera le AI
- Déloger Apple et Google ??
- Voir / Détecter / Avertir l'environnement du véhicule
- En 2020, on estime que le coût de l'électronique dans une auto est 40 %.

# Image radar en 4D (?) autour du véhicule



## Honoree

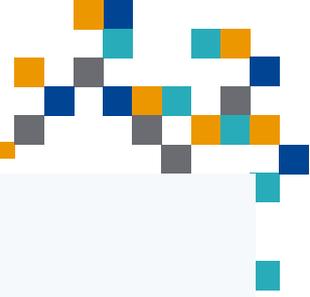
### Embedded Technologies

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Ambarella announced the world's first centralized 4D imaging radar architecture, which for the first time allows both central processing of raw radar data and deep, low-level fusion with other sensor inputs—including cameras, lidar and ultrasonics. It combines Ambarella's highly efficient 5nm CV3-AD685 AI central domain controller system-on-chip (SoC) and its Oculii™ adaptive AI radar software. This breakthrough architecture's optimized hardware and software provides the industry's best AI processing performance per watt, for the lowest possible energy consumption, along with the most accurate and comprehensive AI modeling of a vehicle or robot's surroundings.

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# Ecran en rouleau – siège arrière auto



## Honoree

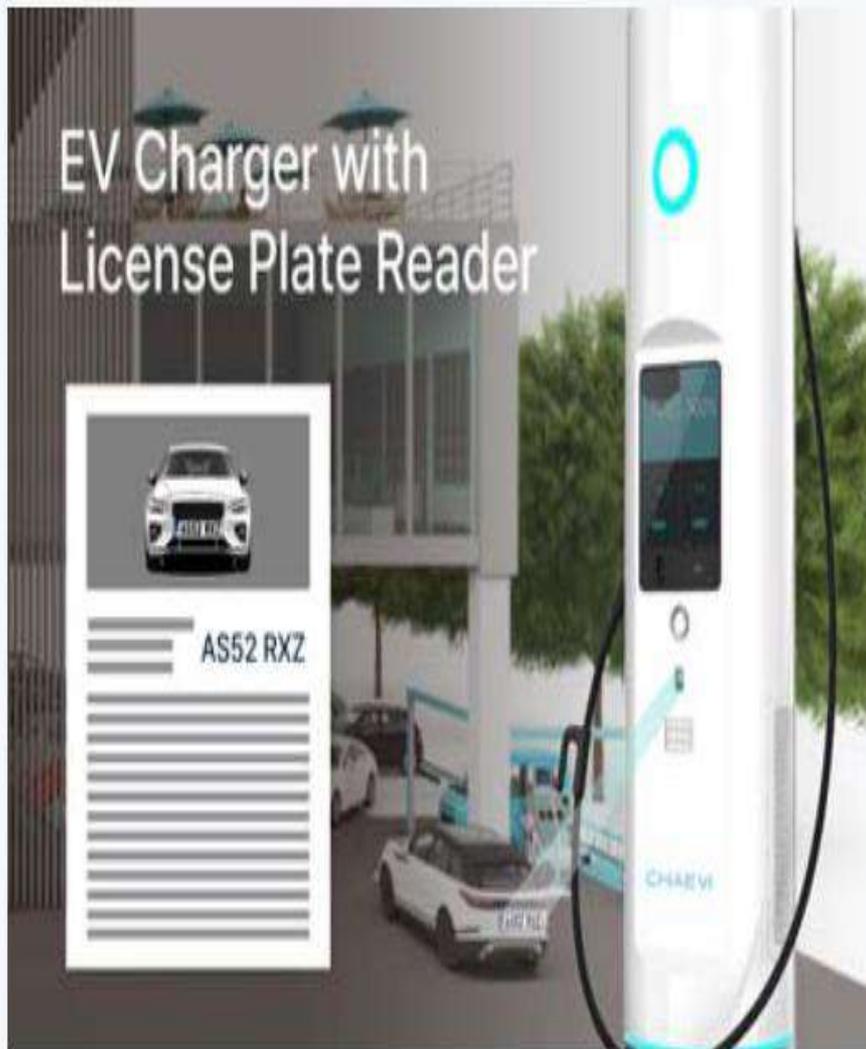
### In-Vehicle Entertainment

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The AUO Rollable Rear Seat Entertainment (RSE) is an innovative product that can change the landscape of rear cabin and the invariable RSE settings in vehicles. The invention of the Rollable RSE aims to make vehicle manufacturers with more flexible interior designs and make passengers enjoy a more all-round third living space.

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# Chargeur VE – pénalisant ceux qui abusent



## Honoree

### Smart Cities

The operation rate of EV charging stations is decreasing due to cars occupying parking lot even after charging has ended.

It makes other customers waiting more time at the charging station

Also, it reduces the profits of companies that operate charging stations and causes financial waste for the country, which invests national finances to build charging infrastructure.

CHAEVI EV Charger equipped with License Plate Reading (LPR) technology increase the actual operation rate of the charging station by charging usage fees based on the time the vehicle is left unattended after charging was completed and fines by the law and policy.



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# Réalité virtuelle – un nouveau nom

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- Effet **Apple** même si pas présent.
- A. présentera un super nouveau casque de réalité virtuelle bientôt.
- Changement de nom pour Réalité Augmenté et Réalité Virtuelle
- Appel utilisera l'expression «Informatique spatiale».
- Plusieurs fabricants ont déjà adopté cette expression.

# Créer l'impression du toucher



## Best of Innovation

XR Technologies & Accessories

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The Phantom enables the feeling of touch in the spatial computing age. The Phantom provides haptic feedback at finger level granularity by interfacing directly to the nervous system. The self-aligning rings provide a transparent interface which allows for seamless transitions between the digital and physical world. The wrist-worn electronics provide a mobile and wireless interface to any spatial computing headset, glasses, or mobile device. Afference was founded by world-leading neural engineers who are translating decades of research in neural interfaces into the spatial computing age.

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# «Le mieux être»

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- Un robot »tuteur» de votre enfant
- Des petits robots de compagnie avec AI et Chat GPT
- Des cafetières «barista»
- Électroménagers avec AI
- Un oreiller pour contrer les ronfleurs
- Un clavier pour votre iPhone
- Le super contrôleur avec AI

# Un robot compagnon avec Chat GPT



## Honoree

### Robotics

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Loona companion robot evolved from our second-generation product, ClicBot. We abandoned the traditional robotic pets' complete anthropomorphization of an alive animal, blending technology and pet behavior in the design. We bring our customers a cost-effective product with non-stop service of updating product features.

Loona is very smart. It is a toy for various interactive games, a moveable home monitor, and also a programming learning platform. It is the world's first consumer robot equipped with the latest AI technology, ChatGPT, which enables users to realize natural human conversation and unlock unlimited companionship possibilities.

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Quitter le mode : animal de compagnie pour compagnon intelligent.

# Tuteur pour enfant avec AI



## Honoree

Artificial Intelligence

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Moxie AI is a revolution in child development. Moxie AI is a compassionate companion that will be your child's friend, tutor, and mentor. Using cutting edge technology, Moxie AI incorporates a holistic approach that helps your child learn essential developmental skills through play and tracks the developmental milestones in a mobile device App. Moxie AI provides a safe, non-judgmental space for children to learn and practice social, emotional, physical, and cognitive skills, building confidence to help kids reach their full potential for life-long success

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# Le simulateur de vélo Ultrar



- Le visuel varie avec mvt gauche – droite.
- Génère du vent en fct de la vitesse..
- Ne plus router «dehors»



## Honoree

Digital Health

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The 3rd generation ULTRACER NEO is the world's best cycling simulator consisting of absolute safety, ultra-realistic cycling devices and software that synchronize real-time bicycle left-right movement with content and generates wind based on riding speed. Neo is a lifelong exercise product that fully implements balance and movement, which are key functions of outdoor cycling, allowing you to sweat in three minutes while enjoying games or virtual trips indoors at any time without the risk of external constraints or accidents.

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# Un oreiller anti-ronfleur.



## Best of Innovation

### Smart Home

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The motion pillow has been combined with the vital ring to enhance the sleep experience for individuals who snore or face breathing discomfort. It not only intelligently detects snoring sounds but also accurately measures oxygen saturation levels. Through the movement of 7 airbags, it dynamically adjusts the positions of the head and back, creating a comfortable breathing environment and reducing snoring. The product has been further enhanced with an increased number of airbags, the vital ring for oxygen saturation measurement, circadian rhythm lighting, and a space-saving charging system, all contributing to improved performance, usability, and adding a touch of sophistication.

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# Matelas ajustable vs info biométrique



## Honoree

Digital Health

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Just as our body moves non-stop during sleep and responds to changes in biometric information, the SleepInBody-Incline Smart Mattress is a digital healthcare mattress that ensures a stable sleep state that analyzes real-time changes in the user's biological signs (heart rate/respiratory rate) using IoT system, a key technology.

The SleepInBody-Incline Smart Mattress automatically adjusts its firmness, height, and angle based on users' BMI and daily activity collected by SmartBody scale and smart wearables. This ensures that it provides the best sleeping environment for everyone.

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# Un clavier pour Iphone...(inspiré du BlackBerry)



# Un BlackBerry

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458621887

# Le Rabbit R1 A1



Plus A1 ...contrôle vos autres appareils ...apprendra de vous ....199\$

# Lunette avec «audio vers texte»



## Honoree

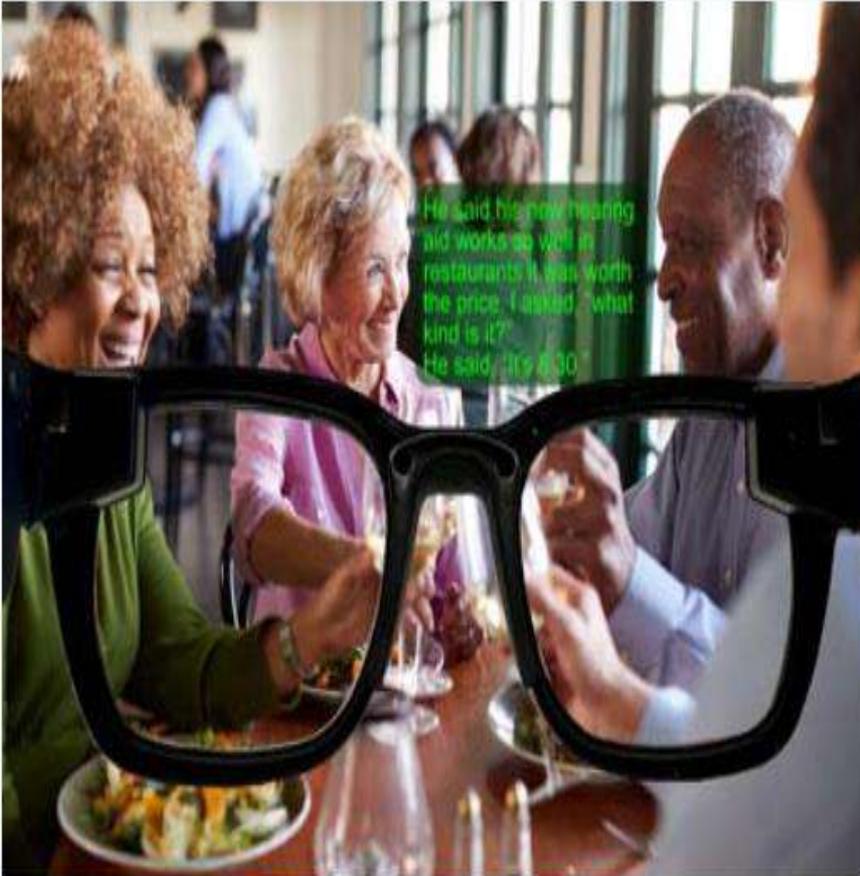
Accessibility & Aging Tech

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XanderGlasses are wearable assistive technology for people with severe hearing challenges. Everyday situations—background noises, multiple speakers, and low-voices—impede understanding and create strain. Severity intensifies with age causing individuals to withdraw and can contribute to cognitive decline.

XanderGlasses substitute “sight for sound,” enabling those who can’t hear speech to understand conversations. Using Vuzix Shield smart glasses, they combine microphones, processors, and AR displays to transcribe speech to text, and instantly project accurate captions into the wearer’s field of view. They don’t require a cloud connection, and work wherever people need them empowering people to regain confidence and independence in conversations.

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De la vision au texte superposé dans votre champ de vision.



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# Le vraiment bizarre

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- Détection d'arme à feu pour les écoles (only in America).

# Détecteur d'armes à feu à l'école.....

## Gun Detection System

By Bosch



### Best of Innovation

Artificial Intelligence

### Honoree

Human Security for All

The Gun Detection System from Bosch is the first to pair video and audio AI to prioritize proactive security and safety involving guns at schools. The near-invisible system offers a multi-layered approach to elevate security and safety of campuses, while enabling a smooth, frictionless flow and welcoming atmosphere that promotes learning.



**FIN**