Wearables From CES 2020

By Mark Brinkerhoff



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Aura Strap

Aura Band

AURA's first product - Lifestyle tracker with body composition analysis and hydration level monitor. Aura's devices are allowing people to know much more about their health such as your fat/muscles volume and hydration level. They are using BigData and ML for finding insights, such as diseases on early stages.







Xsens is the leading innovator in 3D motion tracking technology and products. Its sensor fusion technologies enable a seamless interaction between the physical and the digital world in applications such as industrial control and stabilization, navigation, robotics, ergonomics, health, sports and 3D character animation.





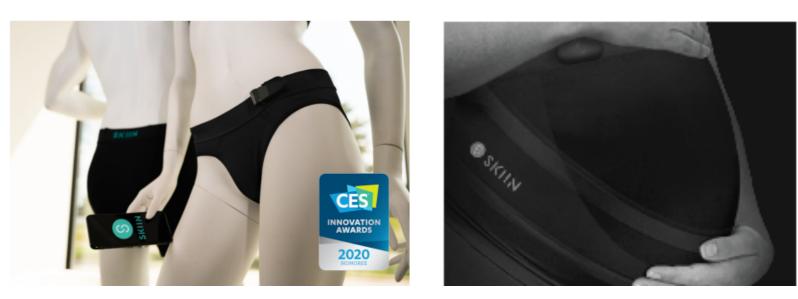
Motion Analysis

Motion Capture for Animation and VFX $% \mathcal{F}_{\mathcal{F}}$





Myant is on a mission to empower humanity through Textile Computing[™]. They knit sensors and actuators into everyday textiles, giving them the ability to sense and react to the human body. This continuous bidirectional interface to the human operating system will empower humanity to transform its capabilities and performance, help people proactively manage health and deliver treatment, and allow us to build better connections to our own selves and those around us.



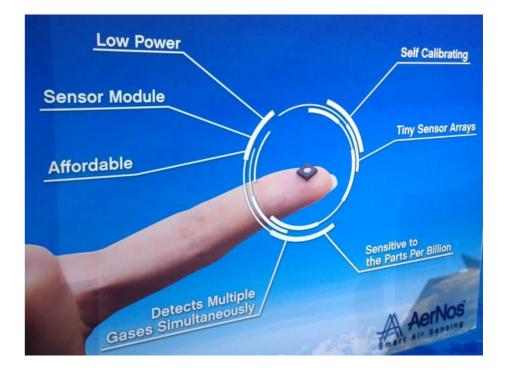
SKIIN, its own line of connected clothing. SKIIN Connected Apparel features sensors and actuators knitted directly into everyday clothing to bring new ways to connect with your own body, improving your health, performance, and productivity



AerNos

AerNos, Inc. develops application-specific nano gas sensors for detecting harmful gases in the environment and for other electronic nose applications. AerNos gas sensors can detect multiple gases simultaneously to the parts per billion. They are tiny, accurate, affordable and use low power.







DreamOn[®] Sleep Better

By emitting the low-frequency signal of deep sleep via gentle tactile pulses, DreamOn encourages your brain to replicate that signal, sending you into a deeper sleep, faster. After just a few nights, most users report falling asleep in almost half the time and sleeping longer.







Digitsole is the world leader in connected footwear. They integrate electronics into footwear to offer consumers more functions to bring significant comfort and well-being.

Sport Profiler

The first multi-sport smart insoles that enable runners and cyclists to improve their performance.

One pair of smart insoles for two dedicated applications.

Warm Series

The first connected heated insoles designed to keep your feet warm. This innovative product has been designed for your comfort and health.

Podosmart

A case containing 6 pairs of smart insoles dedicated to healthcare professionals. The only connected insoles capable of analyzing the walking profile and detecting mobility disorders.



X P L O R A

XPLORA is a leading pioneer in offering innovative smart devices and services for families. Our vision is to provide quality services connecting the family members in new ways with more interactions and engagement. XPLORA kids watch service is revolutionizing the way that kids can be introduced to the mobile world in a more safe and secure way. The service lets kids be kids, so parents can let them play, confident that they always know where they are, and they can reach them when they need to.

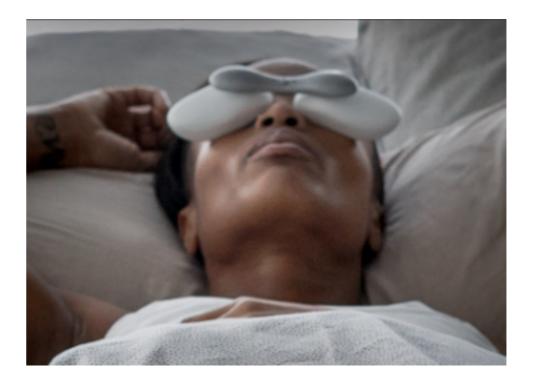






UMAY CARE

Umay's patented technology is based on decades of research on thermal therapy to help restore eye health; combined with their proprietary Thermal MeditationTM. Umay helps digital device users find stress relief and reset the effects of screen time by resting the mind and restoring the natural function of our eyes.









TacSense has developed the world's most sensitive and flexible tactile sensing technology, known as the Flexible Iontronic Sensing technology (FITS). It utilizes proprietary ionic materials to establish an ionicelectronic interface in response to mechanical stimuli. It provides realtime high-quality noise-immune tactile/force signals in a mechanically flexible, optically transparent, and ultrathin package.



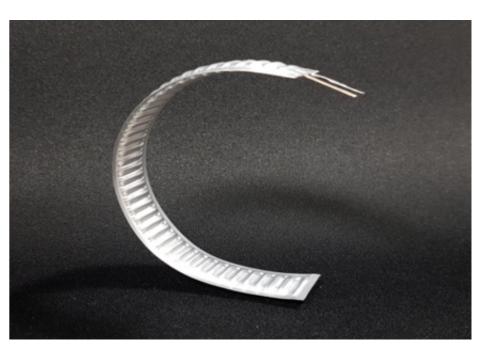
FootWARE smart shoes are the world's first ever health tracking smart shoe that are able to measure heart rate, raspatory rate, blood pressure, emotion, stress level and moving pattern.





Lithium-ion Battery Energy Science & Technology





LiBEST flexible battery, has the highest areal capacity, enough to provide smart devices with power and at the same time, it is flexible on the full range, which is offering a perfect fit for wearable devices. Its areal capacity is at least 2 to 10 times higher than other current flexible batteries.











BeBop uses smart fabrics to create elegant sensor solutions for OEMs. Where things or people interact, BeBop sensors comprehend force, location, size, weight, shape and presence. BeBop technology is flexible, robust and proven with over a million sensors in daily use.



Haptic gloves for enterprise virtual reality training





Acouva earbuds analyses your hearing and boosts sound with amplifiers personalized for your ears. With the same bone conduction technology used in the military, Acouva's microphone picks up your voice and nothing else – eliminating background noise. With a second set of batteries hidden in the case, Acouva's Hot Swap feature lets your swap batteries and listen for up to 20 hours without recharging.

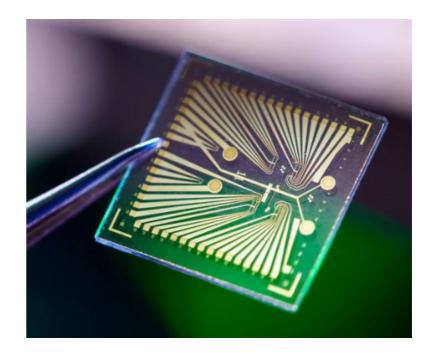


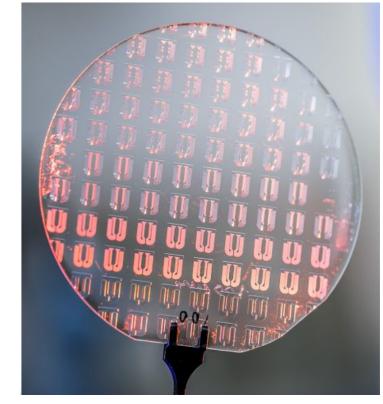






Xsensio develops the unique Lab-on-Skin[™] sensing platform for next-gen wearables. It senses in real-time biochemical information at the surface of the skin, providing unprecedented real-time information about our health and wellness, in a simple and noninvasive way. Xsensio is a B2B company, offering Lab-on-Skin[™] solutions to consumer care and consumer electronics companies.

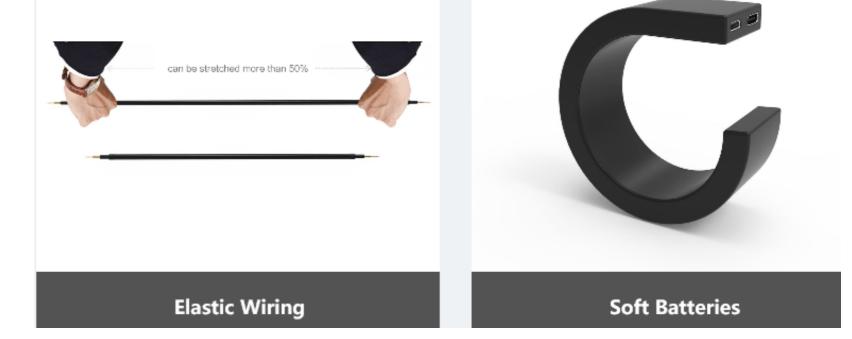








Xtretch Technologies has developed two core products: flexible and stretchable batteries and water-resistant and elastic electrical wiring. When equipped with customized wireless communication modules and sensor chips, we are delivering innovative solutions to enable wearable medical and health care devices, smart apparel, next generation robotics and much more.







Glutrac – the truly non-invasive continuous glucose monitoring device, which provides real-time blood sugar data, facilitates patient health management while allowing cloud data access by designated family members and medical professionals. This helps to keep the patient's long-term blood sugar concentration at normal levels, thereby improving patient's health condition and reducing the chance of related complications.









H2-BP is the wristband type blood pressure monitor which can be worn for 24 hours as a watch. It is the smallest and lightest blood pressure monitor in the world. It can measure "SYS", "DIA" and pulse rate. As it has its own application on smart phone, users can check the data through the application.







WELT is a healthcare IoT company on a mission to realize preventive medicine. Our first solution is 'Smart Belt' a combination of fashion belt & health tracker. The smart belt monitors key health indicators such as waist size, activity level and overeating habits. The belt is built to prevent falls from unstable gait patterns, such as abnormal gait speed and symmetry. If a user shows an unstable gait pattern and a higher fall risk, its companion app will send a warning notification through the user's phone.







EXOSYSTEMS

exoRehab is a solution for a musculoskeletal training and healthcare. The product benefits people to walk again and live a more vigorous life by recovering and reinforcing muscles near the knee joint through personalized and gamified training contents and therapeutic neuromuscular electrical stimulation. The solution is composed of a wearable device and an application. A user wears a wearable device on the knee and makes use of it by linking with the application. It detects user's musculoskeletal health status though sensors built in the evice and analyzes the data. Based on the information, exoRehab provides personalized and gamified trainings which interact with a user in real time.

