EASENORY Technology

World-leading Elastic Textile-PCB

#DeepTech #AdvancedMaterials

#EmbodiedAI #Bio-DigitalSensing

Core Team

Prof. Zijian ZHENG

Chief Scientist

- Ph.D., University of Cambridge
- **Vice President (Knowledge Transfer)**, PolyU.
- **Chair Professor**, PolyU.
- **Director**, PolyU-Daya Bay Technology and Innovation Research Institute

Dr. Dong WANG

CEO

- Ph.D., HKUST
- **Serial entrepreneurship** CTO/CMO
- Led 0-1 Class III MedTech
- **Raised ¥80M+ investment**

Dr. Ceci, Yingsi WU

COO / Founder

- Ph.D., SCUT
- Research fellow at PolyU HK and NTU Singapore
- **Soft device** expert
- **TSSSU-O** Scheme PIC

Director of R&D

- Ph.D., PolyU
- Lead the research, design, and development of **stretchable electronics** and **wearable sensor systems**

Electronics Engineer

- M.Eng., North China University of Technology
- Expert in **soft-circuit architecture** and advanced **stretchable electronics** design

AI Algorithm Engineer

- Ph.D., Zhejiang University
- Postdoctoral fellow, PolyU
- Expert in **biometric signal** analytics and **predictive data modeling**

Embedded Systems Engineer

- Ph.D., Zhejiang University
- Expert in **hardware-software integration** for high-performance **soft wearables**

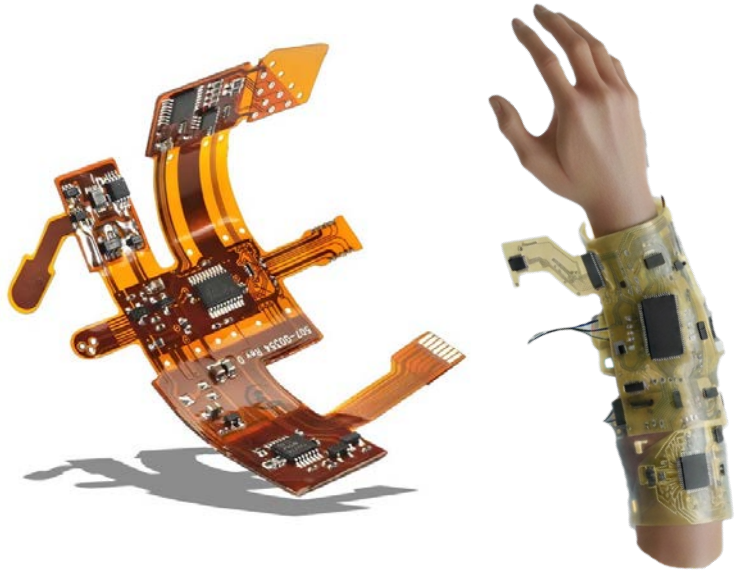
Electronics Bottleneck

EASENORY Technology

1.0 Era Rigid

- ✕ Non-wearable
- ✕ Disconnected

2.0 Era Flexible



- ✕ Non-elastic
- ✕ Bending damage

3.0 Era Elastic

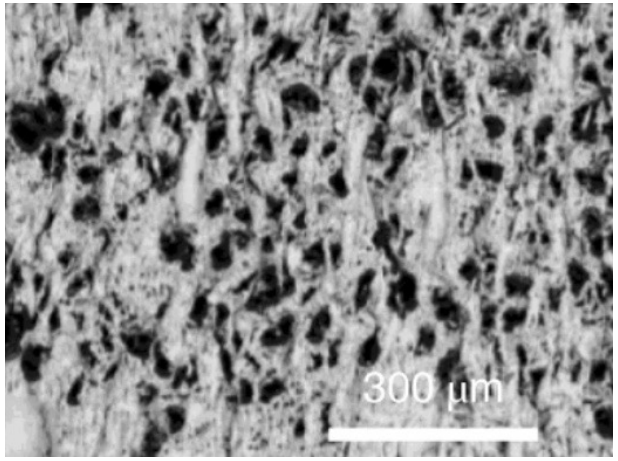
- ✓ Stretchable
- ✓ Dynamically stable

Generation Leap

Feature	Rigid 1.0 (Legacy)	Flexible 2.0 (Transition)	Elastic 3.0 (Easenory)
Geometry	Bulky	2D bendable	3D conformal fit
Stretchability	0%	<5%	Omni stretch (>200%)
Breathability	0	Non-breathable	Porous
Durability	Fragile	Wear & tear	1M+ bending cycles, no degradation
Data Quality	Intermittent	High motion noise	Stable dynamic signals
Foundation	PC	Simple wearable	Embodied AI, smart wearables, e-skin

Our Textile-PCB Platform

Breathable: porous microfibers structure

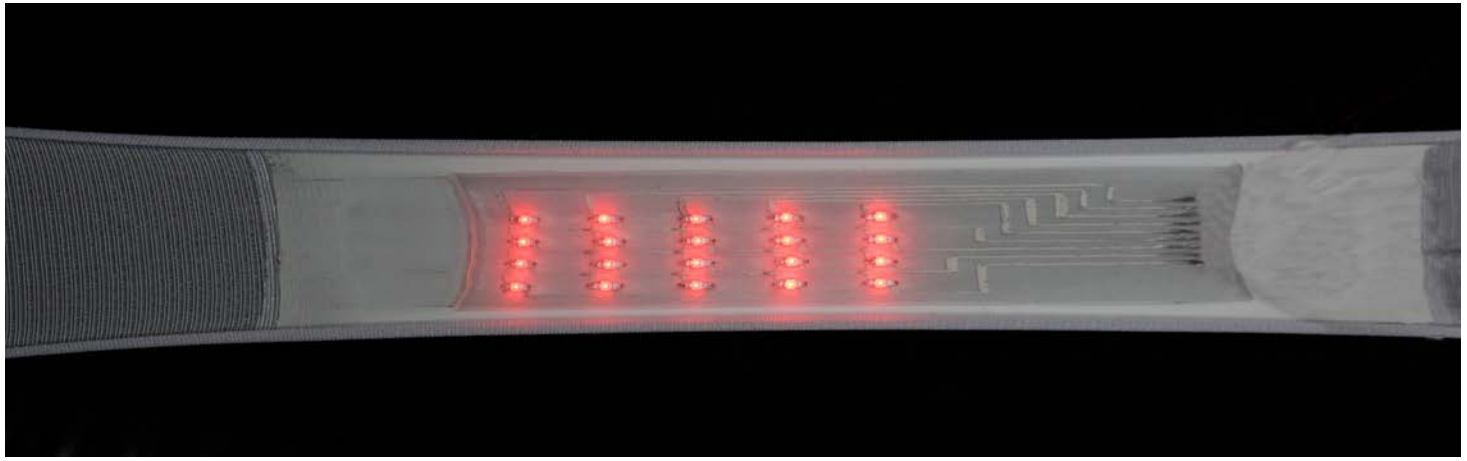


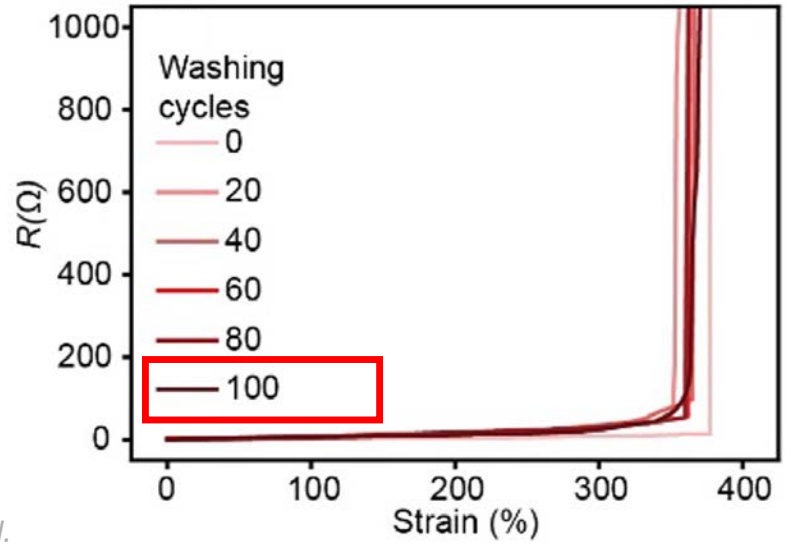
Soft: suitable for long-term wear

Washable: maintains functionality after **100 washes**

Standard machine wash with 1 kg load

Stretchable: over **200% tensile strain**





Consumer Electronics

- Consumer smart wearables
- Flexible parts and system solutions for brands
- Remove rigid modules, unlock design freedom
- Improve long-term comfort

TEAM CHINA
中国国家队

Champion

国家体育总局
General Administration of Sport of China

MLB

Pain Points in Wearables

- ✕ **Product homogenization**
- ✕ **Discomfort**
- ✕ **Inaccurate data**
- ✕ **Insufficient information**
- ✕ **Unable to prevent injuries**

r/LivingAlone · 1y ago
WineOnThePatio

Discomfort from Apple watch?

reddit

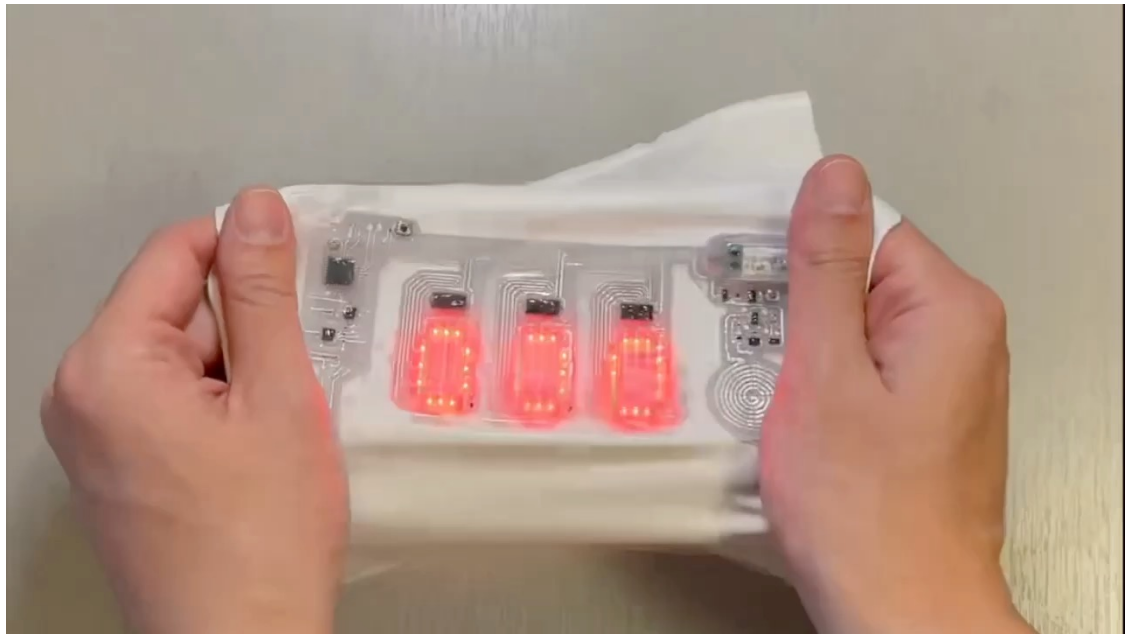
On another thread about wearable devices for calling for help in case of an emergency, has anybody experienced discomfort or pain from wearing an Apple watch? I tried wearing a FitBit a few years ago, and under the dial, it felt like I had a deep-tissue bruise. Not a burn or skin irritation, like a metal allergy, but like it was bruised down inside my wrist, nearer the bone.

I've been reluctant to try any similar device since then, but after a recent health scare, I'd like to have some wearable device for emergencies. And if it has to be paired with my phone (?), I have an Android.

Has anybody had a similar experience, and did you find a device that was comfortable?

(And before anybody asks, the strap was not too tight. I wore a wrist watch for decades and know how to strap on a watch without injuring myself.)

Multimodal Sensing



Key Functions

- **Acceleration: Motion**
- **Temperature: Skin & ambient**
- **PPG: Heart rate & SpO_2**
- **LED: Real-time display**
- **Communication: Bluetooth**
- **Battery: Wireless charging**

Patents

- A series of national and international patents.

Publications

- Permeable Superelastic Liquid-metal Electronics. *Nature Materials* 2021 (737 citations).
- Wafer-patterned Microelectrodes. *Science Advances* 2023 (143 citations).
- Permeable 3D Integrated E-skin. *Nature Electronics* 2024 (140 citations).
- ICU-Grade Breathable Cardiac E-Skin. *Science Advances* 2025.

Evolution of Electronics

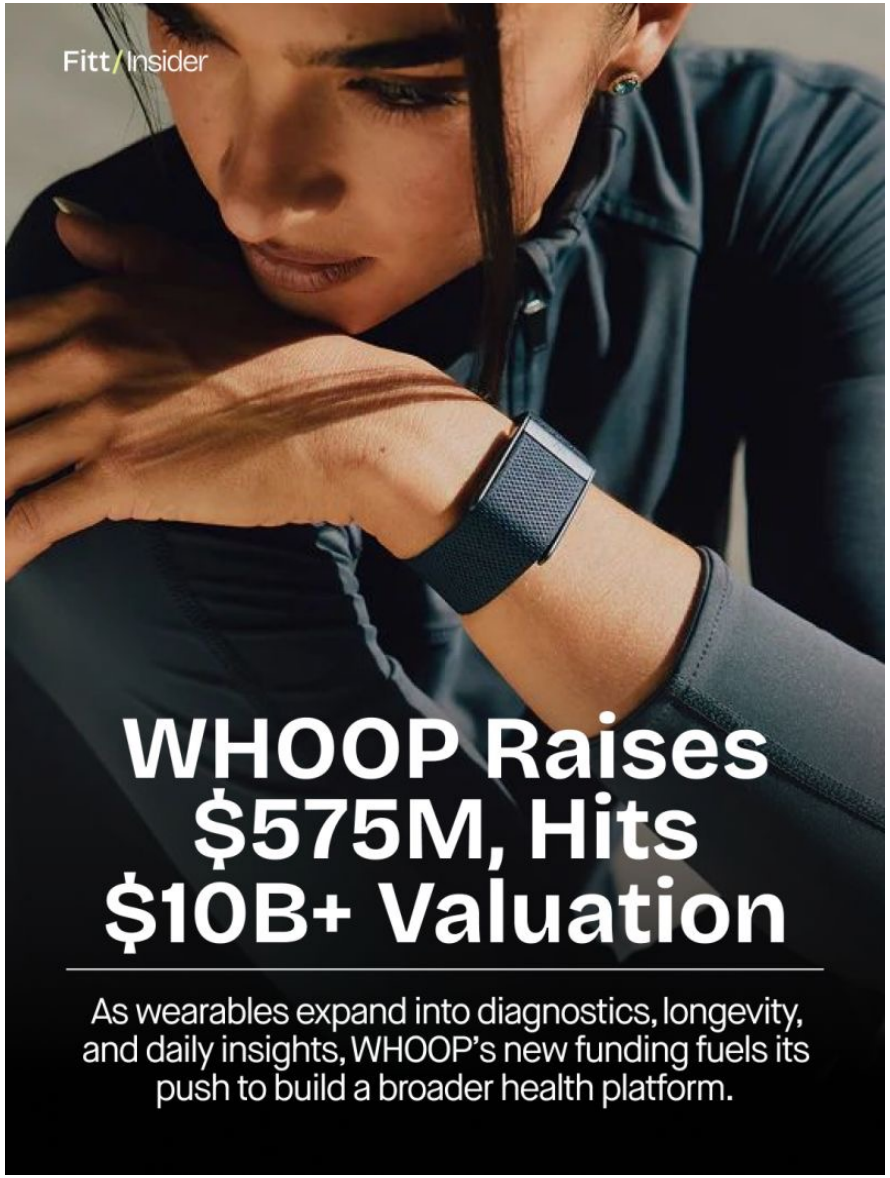
Rigid Box

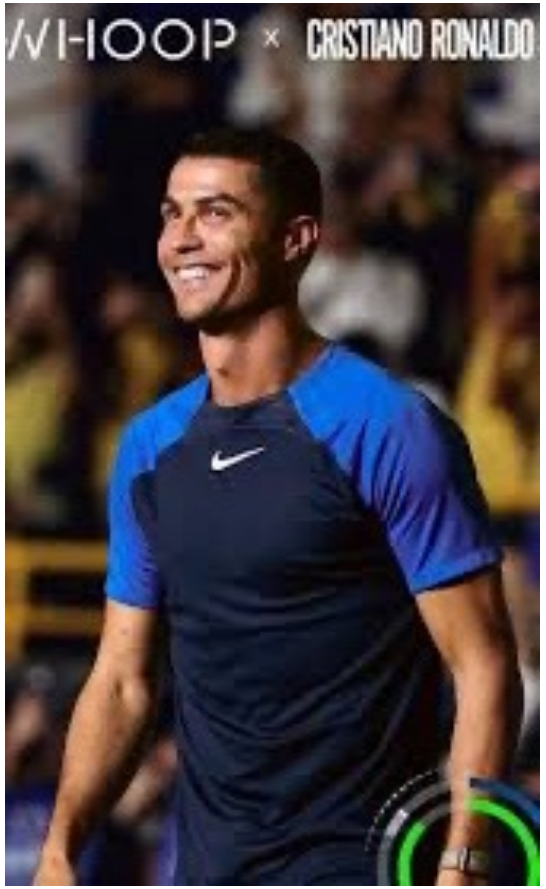
- × Mechanical mismatch
- × Discomfort
- × Motion artifacts

E-Skin

- ✓ Biomechanical Synergy
- ✓ Unnoticeable wear
- ✓ Bio-adhesive stability

Benchmarking





Elastic Interconnects

- For moving parts and foldable hinges
- 1M+ bending cycles
- Replace FPC / ribbon cables
- Enable reliable textile e-skin systems

Core Value Delivered by Our Solution

EASENORY Technology

Easenory Flexible Electronics Solution

Lifetime

1000×

Lifetime Improvement

More Durable | More Reliable | Longer Lasting

Cost per Use

1/1000

Cost Reduction

Lower Cost | Higher Efficiency | Greater Value

EASENORY Technology

Join us in shaping the electric future

Dr. Wang | CEO

Dr. Wu | COO