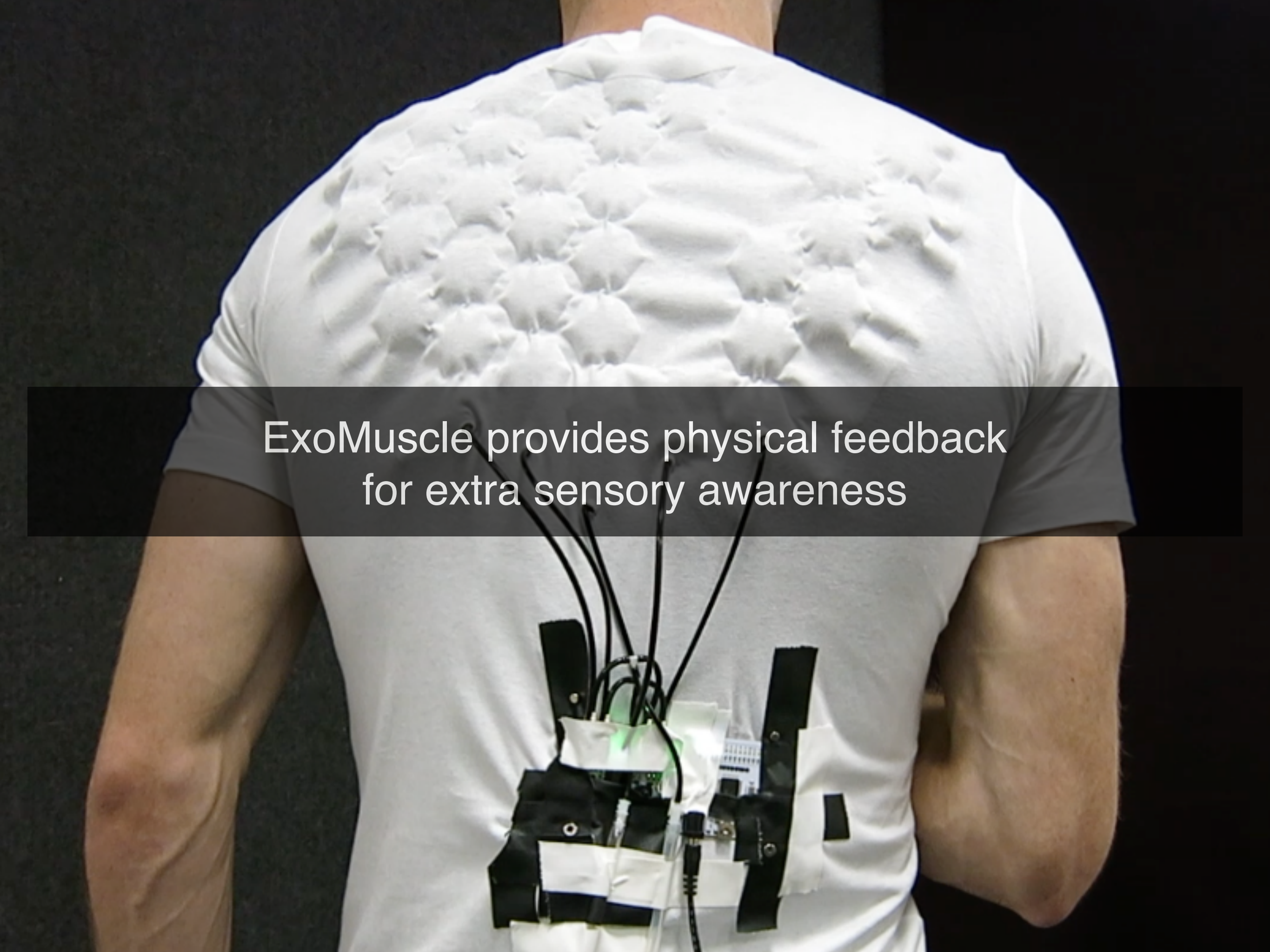


EXO MUSCLE

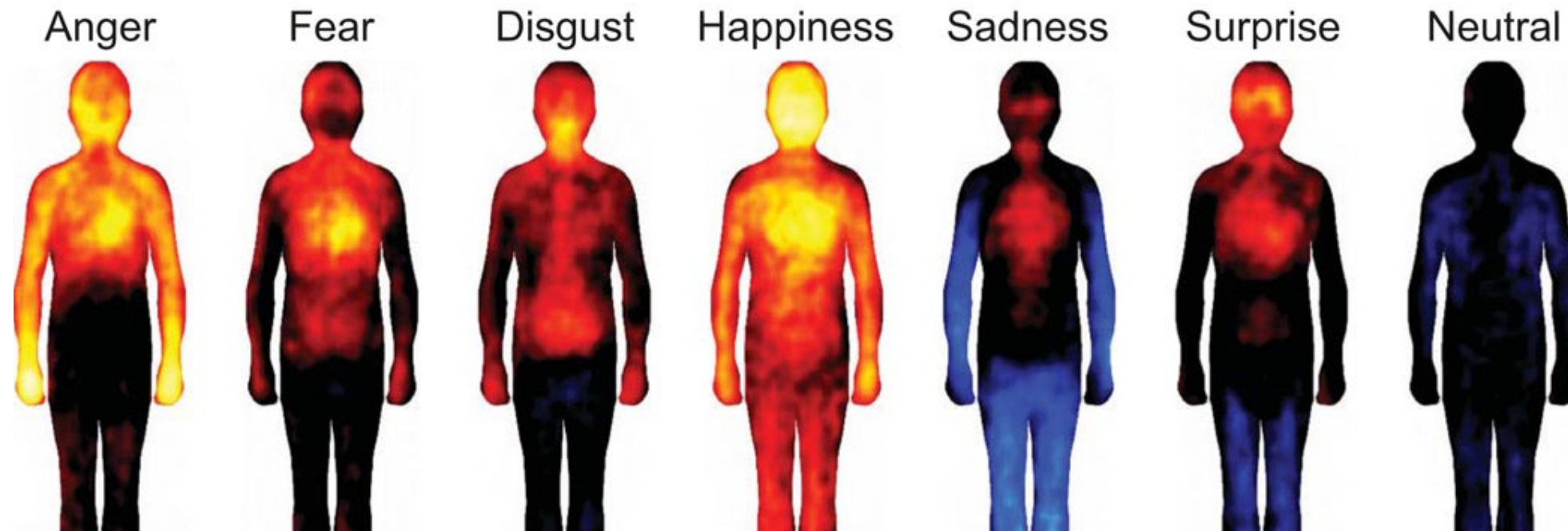
Outerwear for physical feedback

Anthony Baker, Andres Calvo, Meryl Fang, Julia Litman-Cleper, Penny Webb

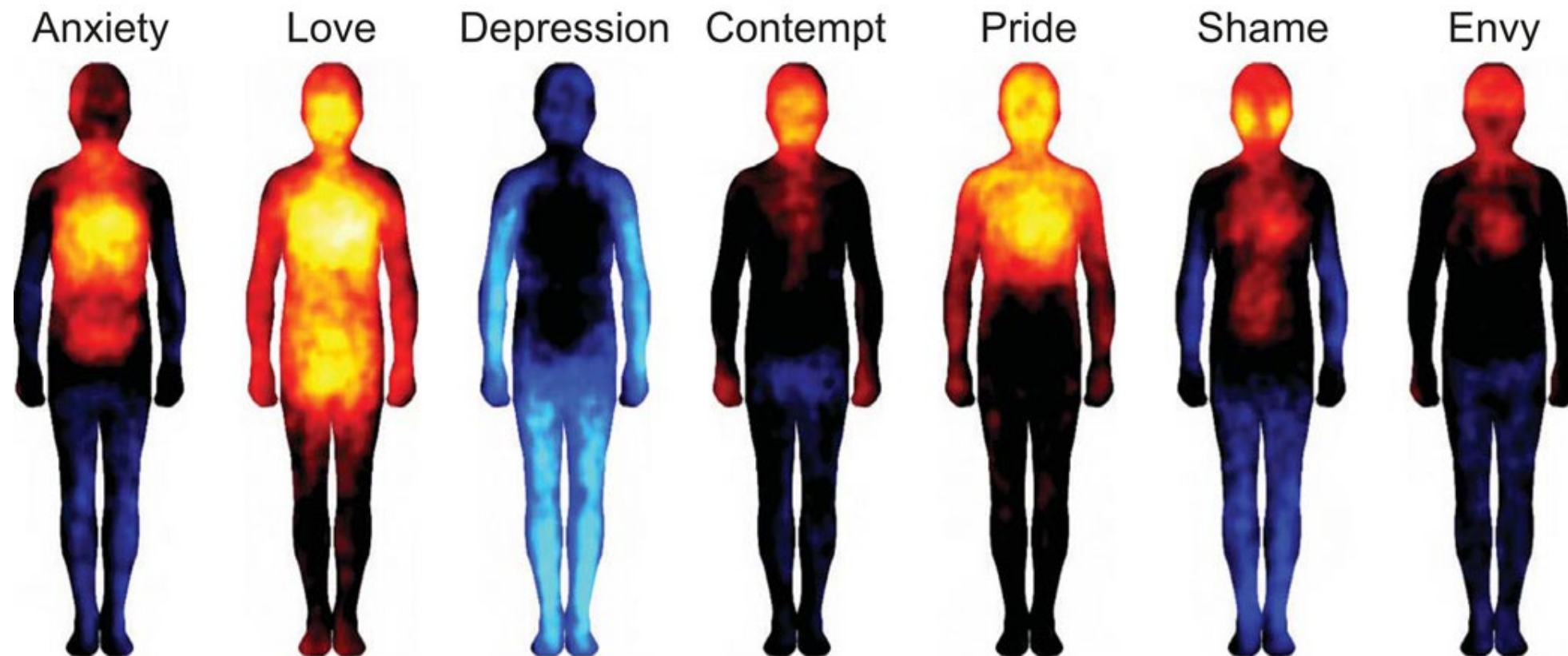
Muscles convey information about the immediate surrounding physical world through kinesthetic feedback. ExoMuscle can convey information about the non-physical (digital) world beyond the reach of your immediate space.



ExoMuscle provides physical feedback
for extra sensory awareness



Research shows that the body conveys sentimental information through different body parts.





Context-specific information can be fed directly onto the body

Three proposed applications:

Driving feedback
alert

Time
Management

RF
Sensing

UTILITY



EXPERIENCE

Senses driving mistakes

ExoMuscle could use physical senses that are not commonly engaged in the driving task to alert drivers of their unsafe driving behaviours.

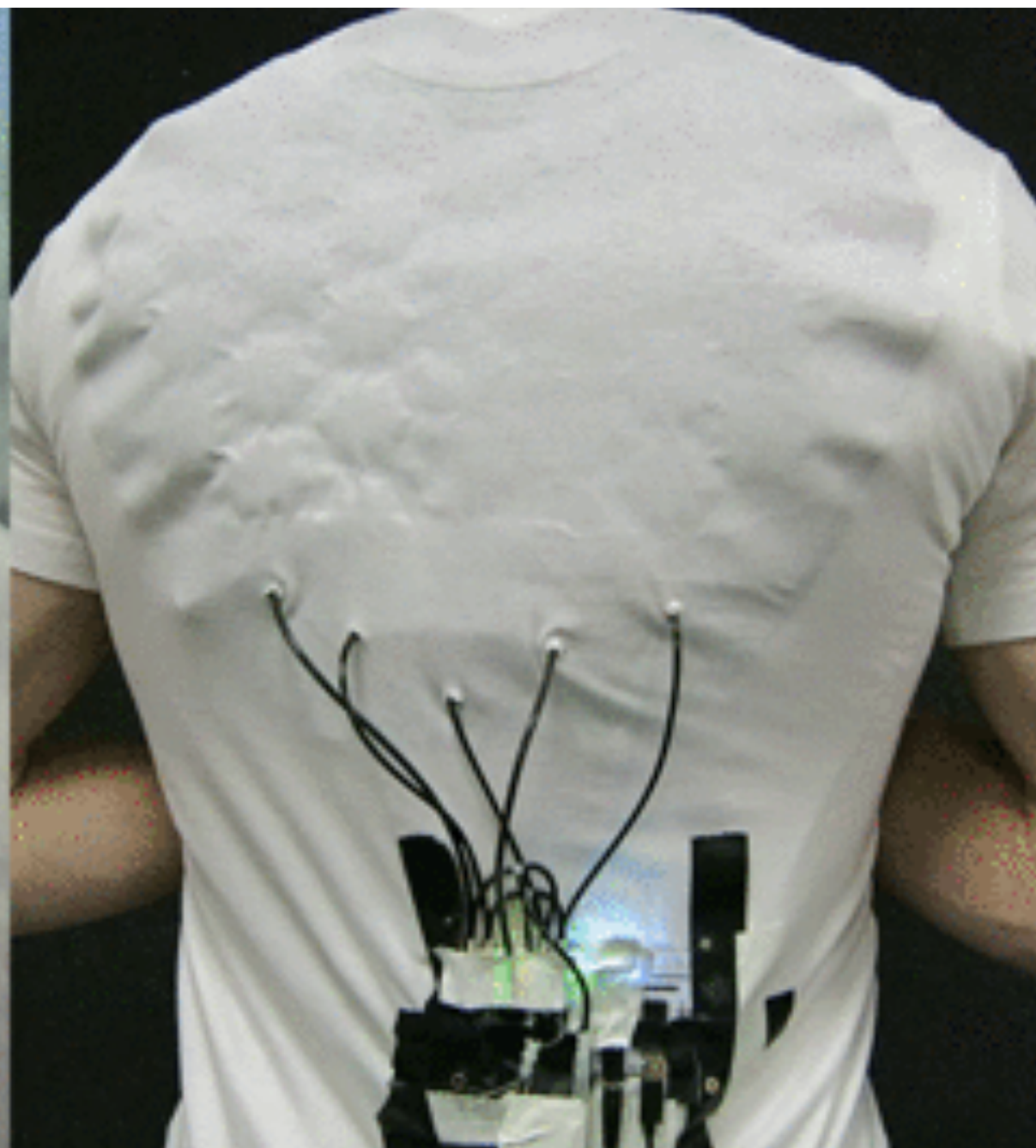
for example : falling asleep, lane drift, speeding



UTILITY



EXPERIENCE



UTILITY



EXPERIENCE

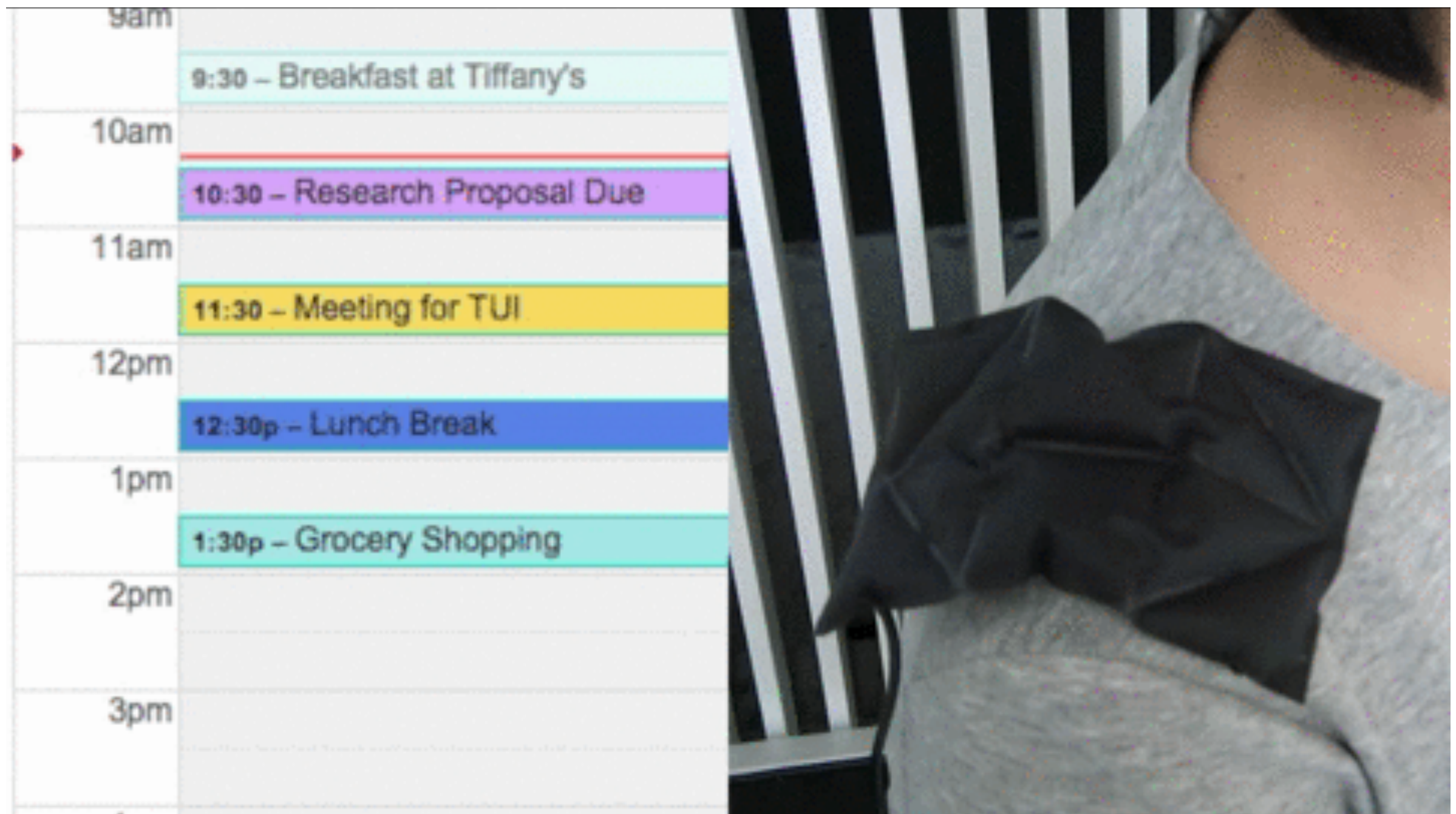


Syncing with a calendar to feel the physical pressure of time

UTILITY



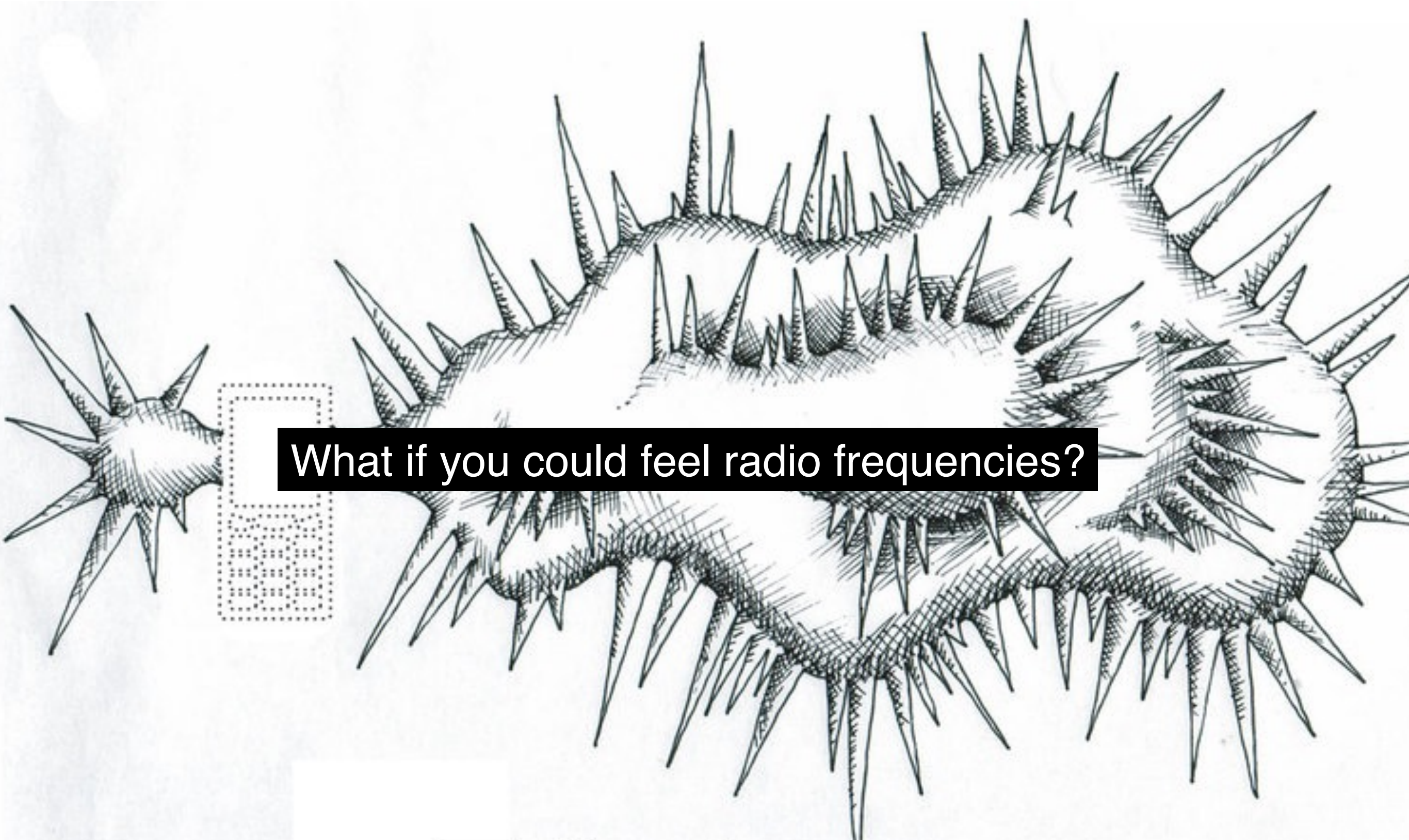
EXPERIENCE



UTILITY

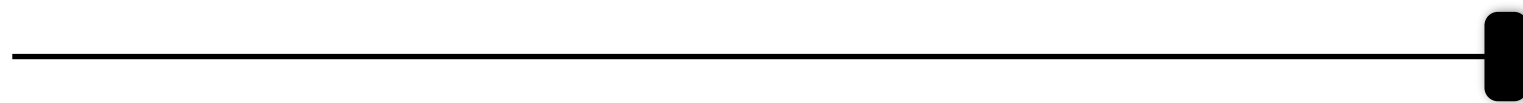


EXPERIENCE



What if you could feel radio frequencies?

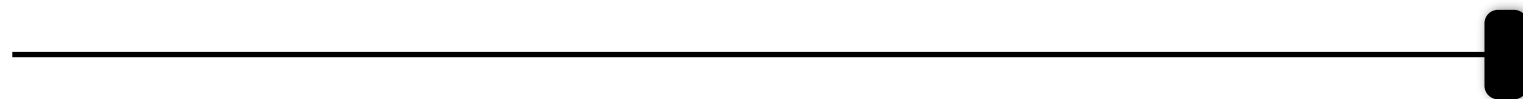
UTILITY



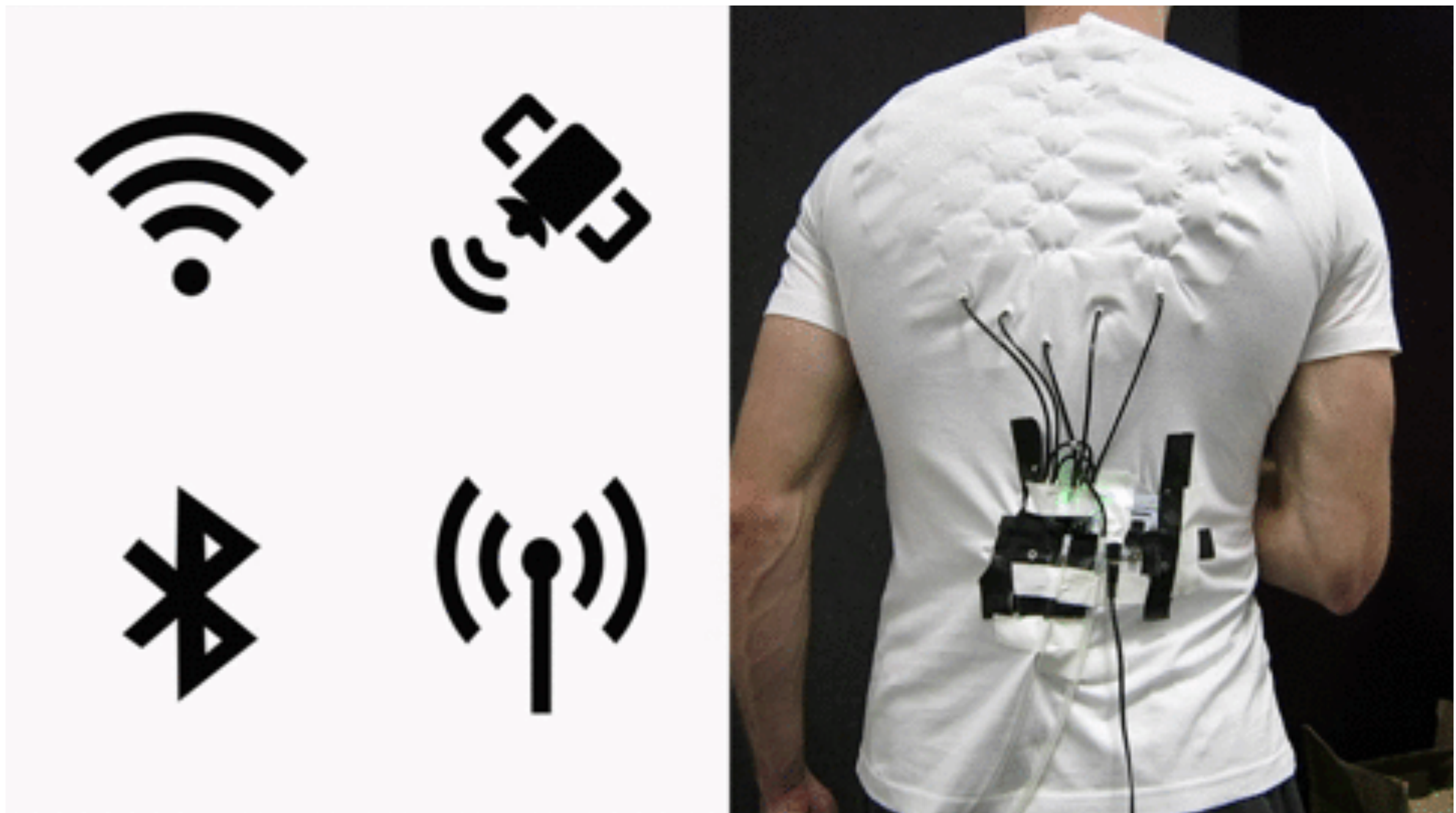
EXPERIENCE



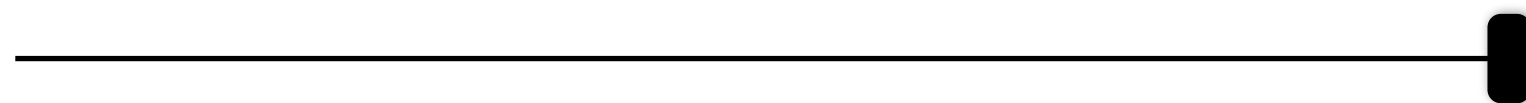
UTILITY



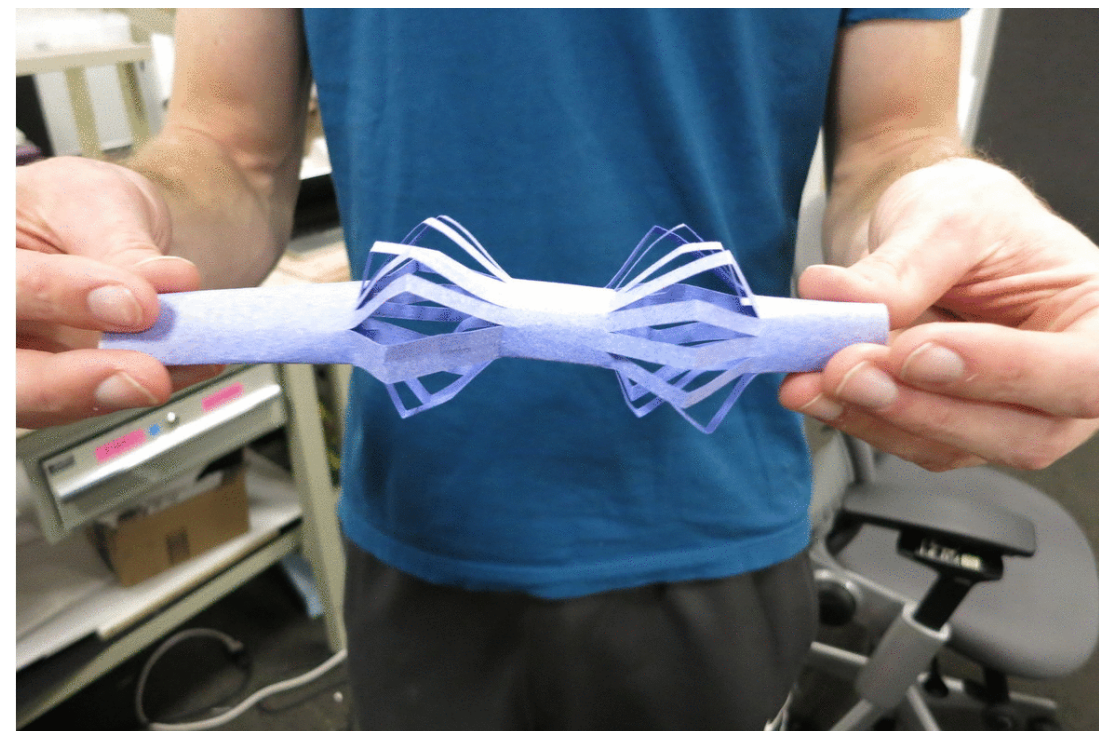
EXPERIENCE



UTILITY



EXPERIENCE



Prototypes, contraction testing



Other possible applications

WELLBEING

Object sensing for
visually impaired

Therapeutic/posture
correction

Outward signalling for
users with specific
conditions e.g. asthma

ACTIVITY

Speeding / drifting
while driving

VR / Gaming feedback

Exercise / motion I/O

EXPERIENCE

Experience signals
beyond our human
capabilities

“Shivers down my spine”
sync with others’
experiences e.g. news,
baby monitor,
loved ones’

Thanks!