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Edition 98

Editor's Desk

**“When the winds of change blow, some people
build walls and others build windmills.”**

Unknown - Ancient Chinese proverb

Happy Reading,

Regards,

Bhavna Botta

<http://www.connectspecial.in/>

Innovative Ideas

MouthPad

The MouthPad (an obvious spin on the word "mousepad") is a tongue-operated touch pad that "sits at the roof of your mouth" and can be connected to your devices just like a standard Bluetooth mouse. The MouthPad is basically like a retainer with a touch pad, battery and Bluetooth radio built-in.

It's made of a resin that the company says is the same "dental-grade material that is commonly used in dental aligners, bite guards and other oral appliances." The MouthPad is about 0.7mm (0.027 inches) thick, apart from where there are capsules, while the touch pad itself on the roof of the mouth is 5mm (0.19 inches) thick.



Picture shows a person holding a dental retainer with a MouthPad

The MouthPad uses Apple's Assistive Touch feature to navigate iOS, but it can be recognized by other devices as a Bluetooth mouse. Each MouthPad is individually 3D-printed, based on dental impressions sent in by customers as part of the ordering process.

<https://www.augmental.tech/>

<https://vimeo.com/818500537>

Innovative Wheelchair

Innovative wheelchair design unlocks possibilities for kids with disabilities. A local philanthropist and a group of Tulane University students teamed up to design and build wheelchairs for kids with disabilities, providing mobility and independence

<https://youtu.be/48dPlcibtIE>



The picture shows a floor level wheelchair with a child sitting in it

Inclusive Ideas

Oko -AI technology

Oko empowers you to effortlessly navigate any signalized intersection. Oko uses your smartphone camera and visually interprets the pedestrian signal, providing visual, auditory, and tactile feedback to inform you whenever you can cross.

Unlike current navigational apps designed for cars, oko is re-imagining navigation from a pedestrian-first perspective. Simply raise the phone and, by using your camera, oko will assist you along your route.

<https://www.eyes.ai/oko>

NeuroNode

The NeuroNode is the world's only wireless, wearable sensor that gives the user the ability to access their technology by bioelectric signals or spatial movements. The NeuroNode is flexible and doesn't require a specific body position or lighting conditions to activate. The one-of-a-kind technology gives individuals control over their surroundings.

Unlike any other sensor, the NeuroNode uses the body's EMG signals or 3D spatial awareness to give the user control. Individuals can access their computer, phone, tablet, and more with the NeuroNode.

EMG, or electromyography, is the measurement of electrical activity associated with the activation of a muscle group. The NeuroNode uses EMG technology to identify the intent of muscle activity, recognizing even the slightest electrical impulse. With traditional switches, users must move to a specific point to make their activation. Initiating and timing this movement can be hard. With the NeuroNode, the sensor is wearable and can be anywhere in space when the activation movement is made, removing the requirement to move to the switch first.

<https://www.controlbionics.com/products/the-neuronode/>

Picture shows a watch like device-the neuronode and the accessories in a square pouch



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