

**Tech Innovations in COVID'19**

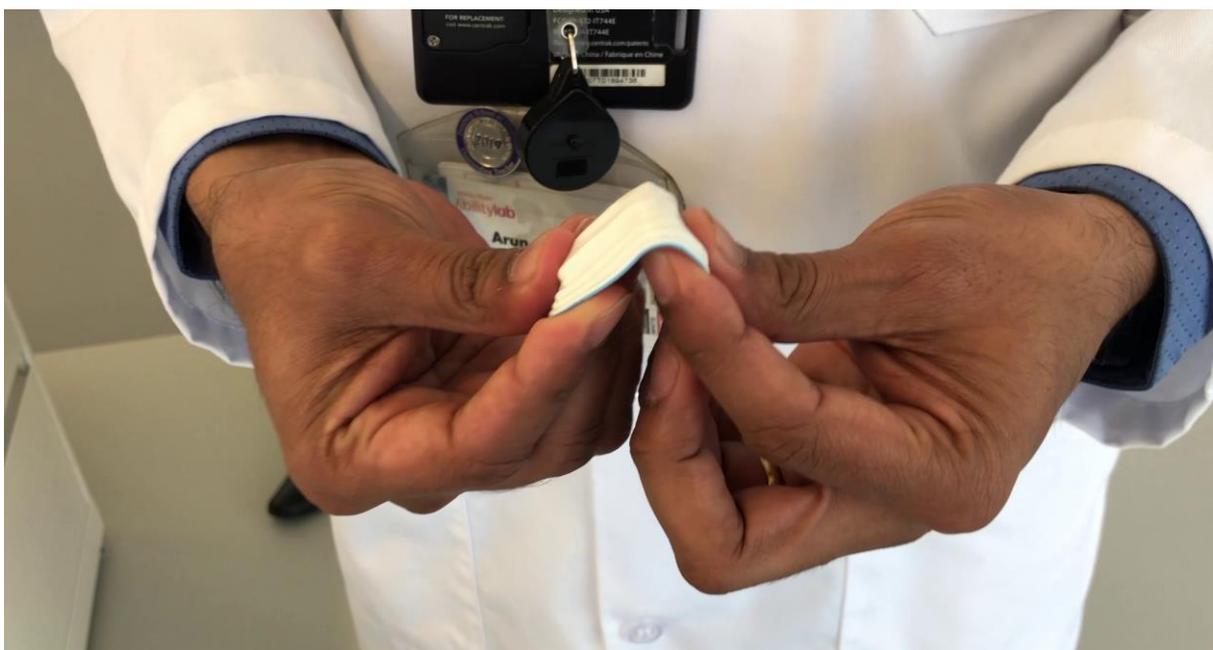
***Robot Dog Patrols Parks in Singapore to Ensure Social Distancing amid Covid-19 Lockdown :***

A robot dog is patrolling one of Singapore's parks as part of coronavirus-related trial. The machine - made by US-based Boston Dynamics - is fitted with a camera to monitor how busy Bishan-Ang Moh Kio Park becomes. The robot has been equipped with cameras to record and estimate the number of people walking around the parks. It also carries a loudspeaker to broadcast social-distancing messages.



## ***This Stick-On Sensor Tracks Key Coronavirus Symptoms With Chest Vibrations :***

Researchers at Northwestern University and Shirley Ryan AbilityLab in Chicago have created a new stick-on wearable sensor patch tracks and analyzes early and developing coronavirus symptoms, then sends them to better inform the doctor. Sensors within the patch detect minute vibrations created with movements of the chest wall. This means the patch can monitor bio-signs without picking up interference from background noise — generally a problem for acoustic measurements. "Our device sits at the perfect location on the body — a suprasternal notch — to measure respiratory rate, sounds and activity because that's where airflow occurs near the surface of the skin," said John A. Rogers of Northwestern.



## ***New Drones Fly to Ghana and Rwanda in 15 Minutes for Rapid COVID-19 Supply Delivery :***

The autonomous drones can travel hundreds of kilometers in a matter of minutes. The tech company Zipline delivers supplies via autonomous drones to rural health centers in Ghana and Rwanda. Zipline has engineered its drones to carry much-needed supplies over hundreds of kilometers in mere minutes to and from these hospitals. Flying these supplies instead of bringing them by car or truck over rough terrain that takes hours to drive through shortens the trip to just **15 or so minutes**, and very importantly, minimizes direct human interaction. Doctors simply input their orders and requests via Zipline's app, and can then monitor the shipments via the same app. Each drone's flight is fully autonomous and monitored from the distribution center.



## ***Wuhan Coronavirus Hospital Ward Staffed Only by Robots :***

As Wuhan is the epicenter of the quickly spreading coronavirus outbreak, it is crucial that the spread of the virus is contained. The program that began on Saturday supposedly consists of **12 sets** of 5G-enabled intelligent robots that operate 24/7 in the Wuchang field hospital. CloudMinds has shipped 5G Cloud Robots to hospitals in Wuhan and Shanghai to aid the fight against the coronavirus. The bots carry out tasks including taking patients' temperatures, delivering meals and disinfecting the facility.



Courtesy : <https://interestingengineering.com>