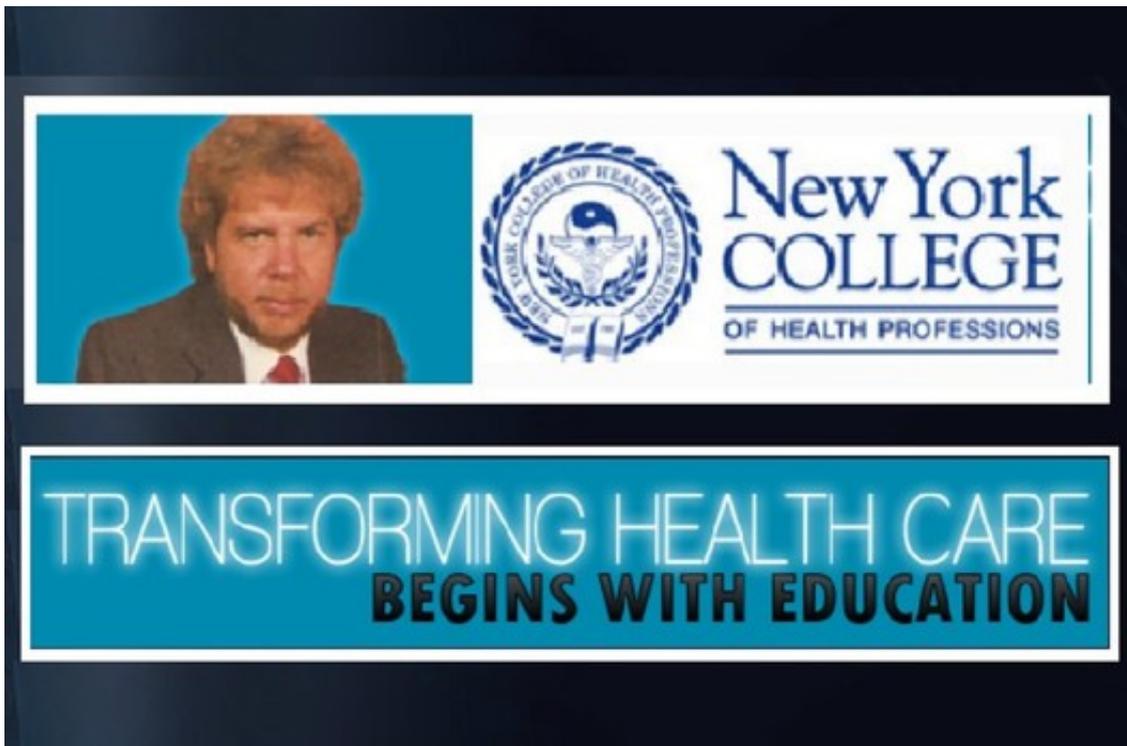


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World renowned inventor Donald Spector: App to assist with forced quarantines

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Inventions and ideas from the amazing mind of Donald Spector

Donald Spector

As the world still fights the deadly [Ebola](#) virus among other threats, people are becoming more aware of just how important it is for some to be exiled into forced quarantine during an incubation period. With this in mind, [health](#) and government officials have been searching for a way to make life easier for those in quarantine as well as the ones monitoring the situations. Donald Spector, Chairman of the Board at [New York College of Health Professions](#), and one of the most prolific inventors in the world, has patented his Biosensor Wearable Technology in order to provide a more civilized method of quarantine.

Donald Spector's new application transmits biosensor signals from smart phones to third party agencies

Spector envisioned this technology even before there were smart phones and has one of the earliest known patents in this area. Spector got a patent for a wearable biosensor signals that transmit from smart phones to third party agencies. Now major technology companies are discussing its usage in the military, child care, elder care and hospital applications. This technology has drawn interest from many universities and corporations that are looking into expanding it.

The application is similar to the technology behind OnStar or ADT, but doesn't just monitor a situation, it reports actual conditions. The device will monitor critical changes to the human body, and connect in real-time to medical professionals. Also important to note is the idea that they are talking about using it for security purposes as well.

Speaking with Donald Spector about the application opens up a multitude of possibilities.

Lisa Pamintuan, President of New York College of Health Professions says, "Spector has donated under the intellectual properties policy of the College, the biosensor patent, as well as many others, giving us a world class portfolio." I spoke with Spector about the app and his hopes for its use and development, as well as other ideas he is working on.

When did you first patented the device?

Spector stated simply "15 years ago" adding "Someone has to be first! First does not give them verification so most want to be second."

Today the patent is being used with smart phone technology. Explained by Pamintuan, "Through the patent, the smart phone, which retransmits information including temperature, GPS and other vital signs, could be transmitted to a monitoring board for quarantine just by having the person wear an article of clothing or an accessory."

How did you first imagine the device to be used and how can the device help with security matters?

"I started doing this originally as a monitor for infants and children when crying and needed help from another room. Then I started looking at audio distress signals" Spector stated. He furthered his answer with a twist that showcased his imagination and childlike adventurer quality in turning fantasy into reality. "I love watching old movies. Looking at old movies where people slit throats, like 'Scareface', how could they monitor to know if the guards outside were still safe".

He answered his own query "With a bio sensor reading vitals can measure if people have changes in their physiology to see if they are safe, never connected to a security station." Explaining the patent's diverse applications Spector explained "It measures biofeedback to

see if someone is in trouble, such as if a pilot or security guard falls asleep".

When did you envision the amazing possibilities of putting the device into practice with today's issues and technology?

Spector and his wife, Marion Spector, Director of Nursing for Staff Development, Bellevue Hospital in New York City, realized that in addition to the biosensors initial capabilities, it could also protect the public and enable them to live with some degree of normalcy during forced quarantine during any public health epidemic.

Excitedly Spector spoke of the tremendous breakthrough of the patent such as using clothing with bio sensors that can monitor chemical changes in skin for those with diabetes and other illnesses to measure vital signs. "The problem with the wearables out now in hospitals used for pulse monitoring is they are not individualized when giving out alerts, which is why so many machines are heard ringing at once."

Spector explained what he was working on "An alert system that goes into a micro processor that goes into a control board. The control board will then send individualized alerts" adding "The bio-band used on a quarantine situation will continuously monitor temperature and other vitals, and add gps to know where someone who is self quarantined is. An alert will go to control board when there is a distress signal, for a very easy application."

In the future Spector sees his invention being used for people for conditions that they are not aware of. Especially for high risk, such as in a situation where someone is in the midst of a heart attack and cannot contact someone.

"Imagine putting a throw away shirt on someone that will test all of their vitals" further stating "Doctors will be able to do biopsies in real time by going to a 25,000,000 data basis while the patient is in surgery to assure that the surgeon gets everything" adding "The technology can create a resonating frequency that unravels the DNA, using micro-optic fibers to destroy cells that previously could not be reached."

From toys to health needs what other inventions are you working on?

While medical and computer technologies have become specialties of Spector's companies, he has a diversified background of inventing and an ever-expanding portfolio of patents. He has been responsible in the past for launching several billion dollar industries with products including the Muscle Worker from AMF, the first hydraulic exerciser; the first hyperbaric chamber for seeds; the first electronic air fresheners, for which Bristol-Myers Squibb created a separate division; and the first location based advertising patents, the foundation behind the super app Poynt. Mr. Spector invented and holds patents for hundreds of other products in fields as broad and varied as toys, clothing, crafts, footwear,

beverage systems, candy and entertainment, as well as technologies in the fields of medicine, security systems, telecommunications and computers.

Always working on a number of things at once Spector told me, he discussed "Working on a recent patent for 3D orthopedic inserts." Spector explained "Most people tend to have two different sized legs, 'leg length differential'. The body bends to compensate". Spector noted how most doctors do not look at the skeletal of a person in pain so the inserts made now do not factor in the change in leg size.

"3D printing can now print out of any material" Spector discussed "Wake Forest is printing cells, they can print skin and organs. The business is exploding." Explaining the invention process "Inventing is more than developing patent and design, it is also the challenge of knowing when will the business really take off; timing of going into the business."

In explaining the patent process Spector stated "You want to be five or seven years ahead when patenting". Spector proudly told me that he invented the first app for location based advertising, "Poynt was the first super app on Blackberry."

He humbly told me of inventing the first electronic fragrance system convincing Bristol Meyers to take a risk. "It took off, becoming big with nightlights and other devices" Spector spoke "Now working to use LED air fresheners to kill most bacteria in cars and homes."

With progress also comes downfall as Spector put it "The advent of low cost technology will be dangerous in the wrong hands" speculating "There will be a tremendous numbers of cyber murders in the future."

New York College is working with Wake Forest Innovations and Touro's New York Medical College.

Recently, New York College of Health Professions set up a formal agreement of understanding with Wake Forest Innovations, the commercialization enterprise of Wake Forest Baptist Medical Center and Wake Forest University, as well as New York Medical College, part of the Touro University System, for an Applied Research Consortium.

"Discussions are underway with other universities and major corporations for the expansion of the technologies of the College as well as this new technology," says Pamintuan.

The brilliant and cheerful Spector is a delight to talk with. One can see his love for life and invention listening to his words and stories. So cool to have people like Spector to help society by utilizing their amazing intelligence and foresight. The world could use more inventive minds and people to assist in world's societies helping health initiatives as well as ideas that make living on this planet more pleasant, peaceful and sustainable.

Open up your eyes to the possibilities and never be afraid to dance.