

# Bracelet that monitors real-time health signs for the elderly

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The trend of wearable devices (smart accessories) like bracelets, sunglasses and watches, is rarely focused on the elderly population. However, Mexican Francisco Lopez-Lira Fennel, who lives in Spain, wants these devices to be used by older adults benefiting them with the first smart watch that remotely monitors real-time health status.

The aim of the bracelet is to constantly supervise seniors who live alone and could not get help in case of a medical emergency from a fall caused by an accident to a heart attack or an anxiety attack, explained the Mexican, who is also the founder of the company "Cualli Software".

The idea was to design a simple and practical device to offer seniors the assurance that someone is on the lookout for them 24 hours a day, even without living in the same house. Everyday situation in Spain, since according to data from the National Statistics Institute, in that country about 10 percent of Spanish households is inhabited by adults over 64 who live alone.

The [smart watch](#), or bracelet, is a specialized health system, designed for remote monitoring of vital signs of the elderly. Using three sensors; it measures the pulse, temperature and movement, also has an audio channel, small speakers and a microphone to communicate with a call center or via smartphone with a relative who can assist them by pressing the only button on the appliance.

Thanks to wireless internet (wi-fi), or the implementation of a cellular chip to provide 3G data network, it can make an emergency call and contact a doctor. Also, it is complemented with an app for smartphones and tablets with Android and iOS systems that can be downloaded by the remote caregiver for the elderly, and thus get the data of vital signs just by checking the mobile device, because measurements are automatically uploaded to the cloud.



López -Lira Fennel, who is also a member of the Mexican Talent Network, Chapter Spain, adds other features to the bracelet, like the accelerometer and screen orientation, which serve to accommodate it to movement.

Despite the innovative device, its creator stresses that "it doesn't seek to be a smart watch, because it lacks a touchscreen, nor promotes interaction through e-mail or social networks, so it is configured for the elder adult to just put it on and not worry about knowing how to handle it, having a permanent link to the call center to check his vitals or to relatives via smartphone".

The [bracelet](#) will facilitate the work of nurses and doctors who work in nursing homes or hospitals, with its help they will be able to monitor the

patient remotely, instead of requiring a person to be physically there. This is because every 30 seconds it uploads information to the cloud (blood pressure, pulse, or accidentes) for it to be seen by the doctor as well as a history of the last three months, thus giving the opportunity to prevent health complications.

In order to obtain more funds to achieve a sustainable commercial product, the employer participated in the contest, "I am an entrepreneur, I am of the Mutua", where he was among the 12 projects finalists from a total of 500 participants and also in the "passion> IE "Accenture and IE Business School, being selected among the 4 finalists in the category "Health of the future". The plan, once with a commercial product, is to promote it in Europe and migrate to the US market.

Provided by Investigación y Desarrollo

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