



## Edge computing for the implementing of Early Warning Score systems in health based on open and low cost hardware

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### Abstract:

The development of Information and Communication Technologies (ICT) and the emergence of new platforms and services, can allow the development of new products and solutions and home health care and patient monitoring. These new platforms, combined with the new computing and computational intelligence capabilities, result in systems that have the capacity to estimate, monitor and control treatments, patients, controls and health care processes, in a ubiquitous manner and with permeate records. Currently, with the implementation of the new computing paradigms, such as fog and edge computing; Medicine and health are expected to obtain a great benefit derived from the development of mobile, portable and connected devices, which can acquire and communicate data on symptoms, vital signs, medications and activities of daily life, which can contribute or affect people and treatments.

### Biography:

PhD student in Applied Sciences, Master of Science in Information and Communications, Electronics professional with knowledge in development of computer security management systems, electronic security, detection and telecommunications systems. Field experience, supervision and project supervision, maintenance management, research and teaching.

Excellent interpersonal relationships, with great capacity to assume responsibilities, teamwork, supported by human talent and the necessary technological infrastructure. With absolute adaptability and continuous im-



provement, with a great sense of belonging and driving safety of the information.

### Recent Publications:

1. Internet of Things Applied in Healthcare Based on Open Hardware with Low-Energy Consumption. *Healthcare Informatics Research*, 25(3), 230-235. 2019
2. Internet of things in healthcare monitoring to enhance acquisition performance of respiratory disorder sensors
3. Analysis of Colombia's telemedicine development, the post conflict potential opportunity. *Telemedicine and e-Health*, 2019.
4. "INTERNET OF THINGS APPLICATION FOR CARDIAC AND RESPIRATORY MONITORING PATIENTS"
5. "Routing Medical Images with Tabu Search and Simulated Annealing: A Study on Quality of Service"

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