

# IoT Driven Healthcare System for Remote Monitoring of Soldiers

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**Abstract:** *The article describes a method for tracking and monitoring troops' health that is based on the Internet of Things (IoT). The proposed system can be installed on the soldier's body to use GPS to track their whereabouts and health status. Using IoT, these details will be sent to the control panel. Small wearable physiological devices, sensors, and transmission modules make up the proposed system. Thus, it is possible to adopt a low-cost system to defend priceless human life on the battlefield with the use of the proposed equipment.*

**Keywords:** GPS, IoT, Arduino board, remote health monitoring, and tracking

## REFERENCES

- [1]. J. Shwetha Priyanka; Aditi Deshpande; G. Raja Mourya; Anil Kumar "Soldier Safety using GPS and GSM Modem"21160083, October 2021.
- [2]. Bhargav Jethwa, Milit Panchasara, Abhi Zanzarukiya, Rutu Parekh"Realtime Wireless Embedded Electronics for Soldier Security" September 2020.
- [3]. Y Jain, B Soni, A Goyal, "Novel Wearable Device For Health Monitoring And Tracking Of Soldiers Based On LoRa Module" Jan 2021.
- [4]. Sujitha V, Sudarmani. R,AishwaryaB,Vishnu Sanjana V,P.Vigneswari"IoT based Healthcare Monitoring and Tracking System for Soldiers using ESP32" April 2022.
- [5]. C J Lakshmi Prasanna,M. Ravi Kumar, Chella Santhosh, S V Aswin Kumar, P. Kasulu" IoT-based Soldier Health and Position Tracking System"April 2022.
- [6]. T Dharsni, H Zakir, P Naik, "Soldier Security And Health Monitoring" 2018
- [7]. D Singh, G Tripathi, AM Alberti," Semantic Edge Computing And Iot Architecture For Military Health Services In Battlefield" 10.1109/CCNC.2017.7983103
- [8]. A. Mdhaffar, T. Chaari, K. Larbi, M. Jmaiel and B. Freisleben "IoT-based Health Monitoring via LoRaWAN" IEEE EUROCON, 2017.
- [9]. J. Pabla, V. Sharma and R. Krishnamurthi, "Developing a Secure Soldier Monitoring System using Internet of Things and Blockchain," 2019 International Conference on Signal Processing and Communication(ICSC), NOIDA, India, 2019, pp. 22-31.
- [10]. A.V. Armarkar, D.J. Punekar, M.V. Kapse, S. Kumari, J.A. Shelke "Soldier Health and Position Tracking System" IJESC,2017.
- [11]. Nodemcu.[Availableat]: [www.esp8266.com/wiki/doku.php?id](http://www.esp8266.com/wiki/doku.php?id).