

IoT BASED SOLDIER MONITORING SYSTEM

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Abstract

In today's human race the safety of the nation is depends upon the enemy's warfare and so the security of the defense force is measured as vital role in it. The security of any nation depends on military, air-force and navy of country and the backbone of all these forces is our soldiers. One of the fundamental charges in military operations is that soldier will not able to converse with control room station. In this project, the exact location and health status constraint of soldier can be sent to the base station in real time so that the suitable action can be taken in case of disaster.

GPS is used to log the longitude and latitude so that route can be known with no trouble. Here to find the physical condition status of the soldier, the body temperature sensor is used to measure the temperature of body, and to calculate heart beat rate of soldier, heart beat sensor is used. The IoT makes the entire monitoring process fast, efficient and the decisions can be taken in less amount of time. So by using this equipment's, the basic life guarding system for soldier can be executed in low cost and high trustworthiness.

1. INTRODUCTION

A. IoT (INTERNET OF THINGS)

IoT is simply the network of interconnected things/devices which are embedded with sensors, software, network connectivity and necessary electronics that enables them to collect and exchange data making them responsive. More than a idea Internet of Things is essentially an architectural frame which allows incorporation and information change over between the bodily world and supercomputer systems over alive network communications. Many people misguidedly think of IoT as a sovereign technology.

Amusingly internet of things is being enabled by the presence of other self-determining technologies which make original mechanism of IoT. The original mechanism that make internet of things a reality is:

Hardware- Making material objects reactive and giving them ability to recover information and react to instructions.

Software – Enabling the data gathering, storage, processing, manipulating and instructing.

Communication Transport – Most important of all is the communication transportation which consists of protocols and technology which enable two physical objects to exchange statistics.

As telecommunication division is becoming more widespread and resourceful, broadband internet is widely accessible. With scientific development it is now much cheaper to produce essential sensors with fitted WiFi capabilities making concerning devices less expensive.

Most essential, the smart phone practice has surpassed all the predicted restrictions and telecommunication division is already functioning on its toes to keep their customers content by getting better their infrastructure. As IoT devices need no divide communication than the existing one, building IoT tech is very not expensive and it is highly reachable. To put things basically, any object that can be connected will be connected IoT. This might not make wisdom on the front position but it is of high value. With consistent devices one can better organize the life and be more creative, safer, smarter and well versed than ever before.

For example, how simple it will be to begin the day if the alarm clock is not only able to wakebut also able to speak with brewer to notify it that the person's awake at the same time notifies the geezer to start water heating.