

Life Jacket for Army Soldier in Harsh Condition

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Abstract: *The purpose behind developing the "Electronic Jacket using Arduino for a person working in extreme weather condition" is the people who are staying or living in extreme weather conditions. The climatic change that is hot and cold temperature conditions are dangerous to the health of those people. Excessive exposure of heat causes serious problem like heat stroke. At very cold temperature, the most serious problem is the risk of hypothermia or overcooling body. So, we have designed a jacket named as "Safety purpose jacket using Arduino" which gives better protection to the people who living in such tough weather conditions and the main objective behind developing this jacket is for safety of military people because they have a huge risk on their lives while working in such extreme weather conditions. The cold and hot climate conditions in the high north represents, Threat of safety and work performance of soldier or a common person. The jacket will provide better protection to them and it will help to reduce loss of human life. In addition to that if the person is not feeling well that person can press switch so that the concerned person will get a message so threat of safety will reduced. By using this jacket, the user can control and monitor the internal temperature inside the jacket by using fan and heater mounted within jacket. It consist of temperature sensor to detect the temperature, panic switch, battery and GSM modules are also used in this jacket to send message by soldier or a common man to concerned one. All this devices are controlled by Arduino. We are using heating pad for heating purpose. This information of temperature sensor can be used in enhanced safety and as an improved tool to advice outdoor work control for soldier or a common man in climate conditions. So that the specially designed "Safety purpose Jacket using Arduino" will give better protection to the person who is working in extreme weather conditions*

Keywords: Atmega328 microcontroller, GPS, LM35 temperature sensor, Heartbeat sensor, battery.

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