

# Mountain Climber Health and GPS Tracker

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**Abstract:** *This paper aims to develop a MOUNTAIN CLIMBER HEALTH AND GPS TRACKER Project is to improve mountaineers' health and safety monitoring while they are on expedition.*

*This project combines biometric sensors and cutting-edge GPS tracking technology to deliver real-time information on climbers' whereabouts and physical states.*

*Through ongoing environmental and health monitoring, the project's main goals are to reduce the dangers connected with mountain climbing, facilitate effective emergency responses, and encourage wellinformed decision- making. The system uses GPS technology to track each mountaineer's exact location, giving expedition leaders and rescue crews the ability to keep an eye on progress and react quickly to any mishaps. Vital indications including heart rate, oxygen saturation, and body temperature are measured by biometric sensors built into wearable technology, giving climbers' physiological states in harsh environments valuable information.*

**Keywords:** Mountaineer Health, GPS, Biometric sensors, Hand Band