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CONSTRUCT GUARD

Innovative Smart Wearables Enhancing Construction Site Safety

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Abstract

Construction sites still have safety issues, which has led to the creation of cutting-edge. The Proposed Solution is Smart wearable bands and helmets equipped with a variety of sensors for tracking employee health and safety. The technology, which is supported by a connected wearable belt, continuously tracks worker location and health parameters. An advanced accelerometer detects workers' standing positions, triggering instant notifications to contractors in the event of dizziness. A Spo2 sensor enhances total health surveillance by monitoring oxygen and pulse rates in addition to the foregoing. This proposed system transcends traditional safety protocols, presenting a dynamic and proactive approach to worker well-being. By leveraging advanced sensor technologies and location-based intelligence, our smart wearables provide real-time health insights and prompt alerts during health compromises or accidents.

Keywords

Wearable Bands & Helmet, Accelerometer Sensor, Spo2 Sensor.

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