



Portable Electronic Awareness Device → The Six-Shield

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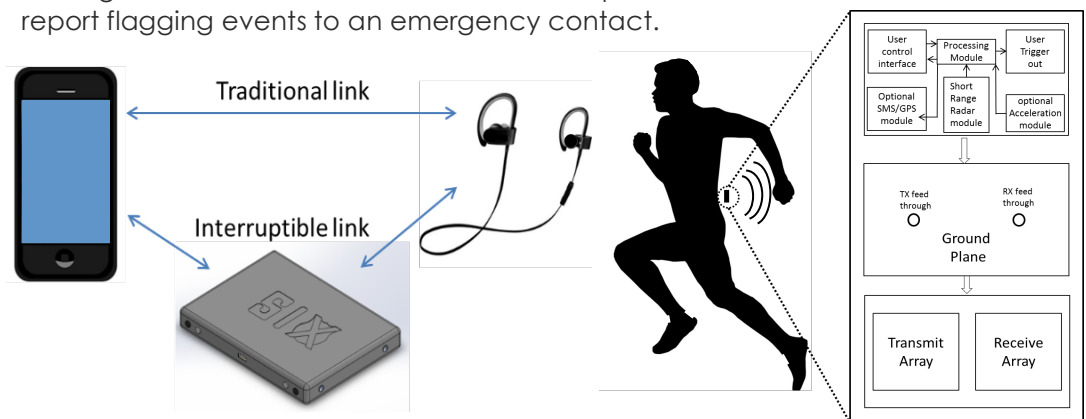
Background:

Personal situational awareness is a steadily increasing deficiency in society as technology innovations and integrations into our daily routines continue to advance. These new devices help to better connect us to our highly diverse and networked informational needs but can also serve as a distraction from basic activities as can be seen through the increased efforts in public awareness for the risks with being too focused on our smart devices when performing basic tasks. One such risk that is constantly exploited is that of pedestrians being caught off guard by approaching threats from behind.

Technology Description:

Rather than continue to fight the current social trends of becoming more integrated with technology, our approach is to assist users by providing situational awareness to their unmonitored field of view and pairing that awareness with their chosen technological links. In this novel method, the advancing field integrated miniature circuits with short range radar and other state of health sensors are embodied into a wearable device that may be affixed to the user and linked (wired/wirelessly) to various stimuli sources

The current best method being considered is to link the device with smartphone and headphones such that a runner/walker can be alerted of an approaching body by having the data chain between the phone and headset interrupted by an alert tone. Furthermore, the unit is protected to also cover additional sensing features that can be used to correspond to a user state of health and even report flagging events to an emergency contact.



Patent Pending Six-Shield unit provides interrupt capability to existing technology setups and houses multiple sensor/transceiver capabilities

Key Advantages

- Provide real-time alerts of approaching bodies
- Monitor for other events of interests, such as falls or lack of motion
- Tracking and Reporting of critical event details to a user defined contact
- Interface with existing electronics to maintain existing data links

*Although the inventor is an employee of AFRL, this technology does not belong to AFRL, but rather is in consideration for the AFRL Entrepreneur Opportunity Program. The technology is managed privately and has been protected privately by the inventors.

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