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(57) Abstract :

This revolutionary device, a smart shoe for defence, increases the safety of the soldiers serving our nation selflessly 24 hours. Utilizing piezoelectric sensor it has the ability to generate electrical energy which can be stored using a lithium ion battery. Featuring with metal detector which provides the ability to track any type of metal so that it can alert the shoe user by transmitting a signal or beep through a wireless headphone. This device has a GPS tracker monitoring system to track a soldier's real time position during emergency. This device has the ability to track the temperature inside the shoes so that an exhaust fan will be automatically turned on to recede the temperature providing comfort to the user.

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