**AIDme Smartwatch: Advanced & Intelligent Device in times of Misfortune Escorted with GPS**

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“Gratitude unlocks the fullness of life. It turns what we have into enough, and more. It turns denial into acceptance, chaos to order, confusion to clarity. It can turn meal into feast, a house into a home, a stranger into friend. Gratitude makes sense of our past, brings peace for today, and creates a vision for tomorrow.” ~Melody Beattie

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MAKER

**PRODUCT DESCRIPTION**

This study was implemented to produce a normal looking Smart Watch but seeks help when the user is in a bad situation. These misfortunes include vehicular accidents and attempted rapes/ holdup, the device seeks for help automatically if the user does not cancel the process, assuming that something happened to the user. Cancellation was included in the firmware in case of false alarm. This device does not directly prevent misfortunes to happen but it seeks help immediately by sending message to the user-defined recipients with the current location of the user in which the accuracy depends on the type of GPS sensor used.

The device uses MPU6050, a 6-axis Gyroscope sensor and Accelerometer, the data from this sensor was used to determine if the user fell off and did not move again, in this case it is assumed that the user was involved in an accident. The user is given a time to cancel SOS message in case of false alarm.

Furthermore, for life threatening situation where people attempts to do bad things to the user, the MAX30100 Heart Rate sensor is used to detect if there is a dramatic increase in the heart rate of the user. The device seeks help automatically, but the user may cancel it in case of false alarm.

However, there is also a feature in which the user presses a specific combination of buttons to seek help immediately when he/she feels threatened. All of these features are hidden as the device is just a Smart Watch at the first glance.