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SSOE Research Symposium Dean's Awards

Title

Walk Texter

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Publication Date

2017-03-15

Peer reviewed



Walk Texter

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What it does:

GOAL STATEMENT:

To ensure the safety of mobile device users and reduce pedestrian injuries with a portable device and a complementary mobile application that detects and alerts users of possible collisions.

Through the development of the Walk Texter we hope to bring awareness to the dangers of the seemingly harmless and undisruptive act of texting and walking while additionally showcasing that such a commonplace activity does not have to be reduced to a bare minimum to achieve safety and that with the constant advancements of old and new technologies, we can enhance our everyday lives.

The Issue: There has been a significant increase of pedestrian injuries with researchers believing that injuries occurred with the involvement of electronic devices accounts for 10% of this rise. The situation has raised just can't seem to enough concerns that earlier last year New Jersey lawmakers' proposed a bill that bans the use of mobile devices while walking.

The Walk Texter is a device geared towards anyone with a mobile device, especially those who an application resist the temptation mobile phone. of texting while walking.

The Target Market:

The Walk Texter is a portable device with a built-in camera linked to running on a user's

What is it?

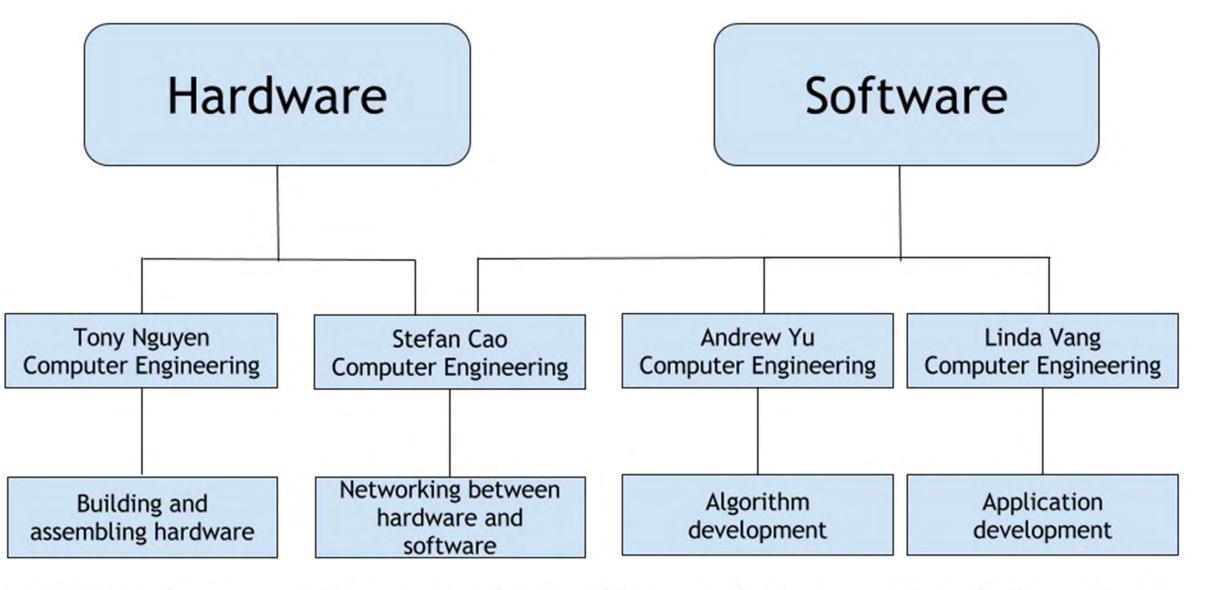
When an obstacle is detected and the probability of collision is below a safe range, the user is alerted of the potential danger with phone vibrations and a pop up window that will warn the user and ensure their safety.

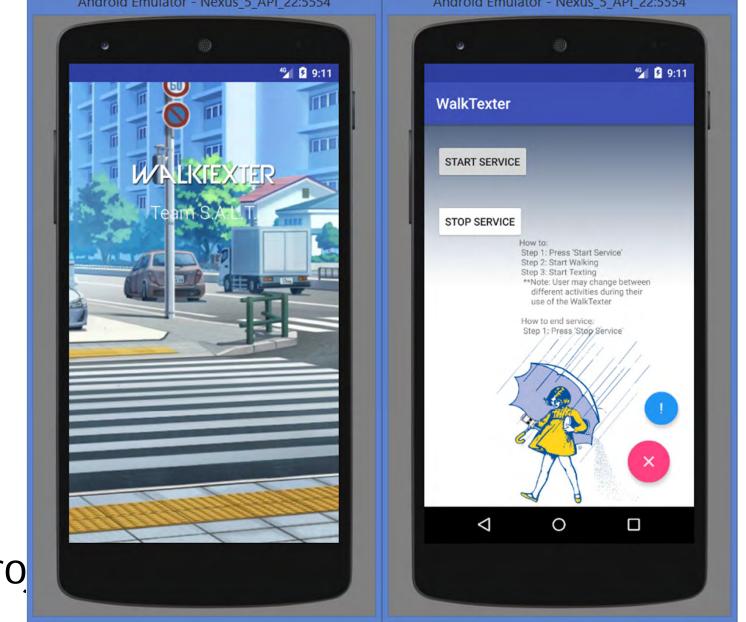
Specifications

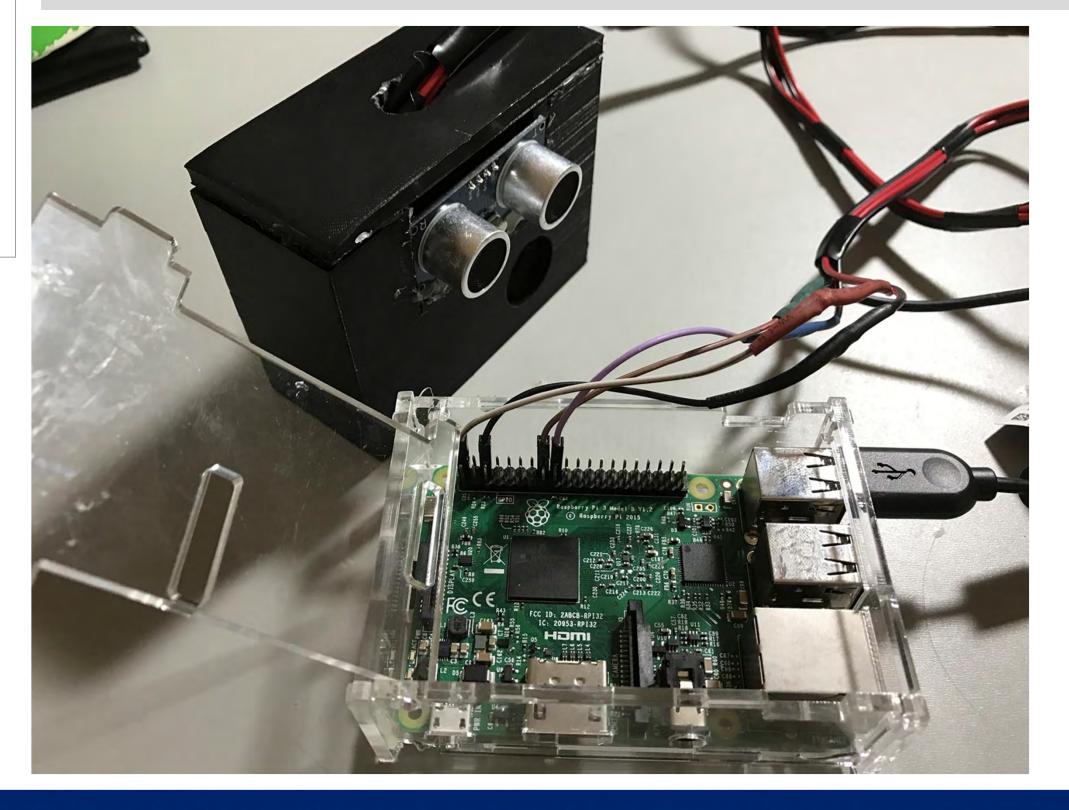
Product Name: Walk Texter

MCU: Raspberry Pi 3

Web Camera: Logitech C270 Ultrasonic Sensor: HC-SR04 Supports Android 6.0 or above







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e information please visit us at: http://srproj.eecs.uci.edu/projects/pro 60-walktexter