

Needs Identification and Problem Statement

Group 14

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Client's Needs:

- Must alert guardian/parent(s)
- Must alert people passing by
- The product must detect the presence of a car occupant
- The product should be universal, meaning anyone in any country can use it
- The device should detect any critical weather conditions such as extreme cold or extreme heat
- The device should be installed by a team who has knowledge of all safety steps and takes all necessary precautions to make sure the product can be used safely, and properly.
- The product should be separate from the vehicle components, therefore eliminating the need to modify any of the vehicle components.
- The device should not be WiFi dependent, but could use GPS signals.
- The device should be affordable to people from any class in different countries
- The device shouldn't use the car as the power source (cigarette lighter etc)
- The device should be able to be installed in any type of car, regardless of the type of vehicle (eg. it should work for school buses as well as SUVs as well as compact vehicles)
- Notifications sent regardless of the temperature: if someone is trapped inside of the car; we need to notify the guardian/passersby

As defined above, the device to be designed by our team for the client must have one major outcome, this being to notify the parent(s)/guardian/passersby that a child/animal is stuck inside of the car. And the purpose of the device is for that person that is notified to be able to go as quick as possible and get the child out of the vehicle in extreme conditions.

A need for parents/guardians to detect/get notified by a device that is affordable, easy to install and not attached to the car. So that the parent/guardian can get their children/animal out of their car when they are stuck inside of it.