

Hot or Not: Doorbell Temperature Check

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In the time of this pandemic the ever looming fear of the virus making its way into your household is ever present, this system will allow you to temperature screen potential visitors to your home. The system consists of a raspberry PI along with a thermal camera which will measure the emissivity of the skin and correlate the result with a temperature range. The result of the scan will be sent to the members of the household with a recommendation to allow them in or not. Ideally the final iteration of the project would have an app on an Android Smartphone, which will give you a live feed from the camera and be activated by motion.

Tools, Technologies and Equipment

Hardware

1. Raspberry PI.
2. Raspberry Pi, LCD Touch Screen with 7in Capacitive Touch Screen.
3. Raspberry Pi, PiNoIR infrared camera.
4. Canakit GPIO breakout board.
5. DesignSpark Camera Case.
6. Android Smartphone.
7. DesignSpark ABS Case.

Software

1. Python 3.
2. Google cloud messaging or another application to allow push notifications.
3. Javascript/Java for app (time dependant).

Project Repository

Git Repository : <https://github.com/Lorcan88/HotOrNot.git>