智慧瓦斯爐把手 目標及市場

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背景

- 市場目標:年長者
 - 忘記時機
 - 看八點檔
 - 睡著
 - 出門倒垃圾與鄰居家常幾句
 - 小孩在外沒辦法幫忙注意





系統架構



Smoke detector

Smoke detection

hub



Human sensing



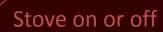
motor control



Infrared sensor

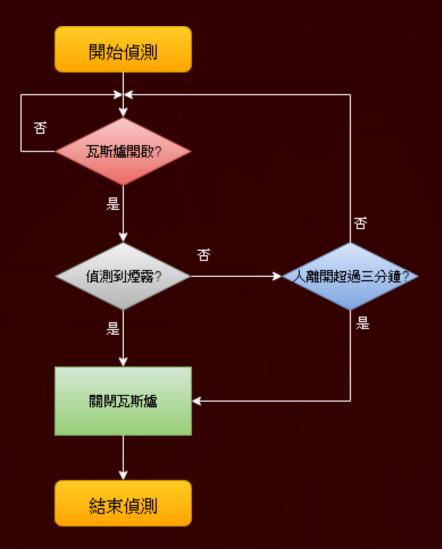


temperature





演算邏輯





作品創新點

• 無須重新安裝整套瓦斯爐設備



• 與手機結合,出門前於手機查看瓦斯爐狀態







訊號流

Node2



Smoke detection

Node3

12 45

Show stove condition in status bar (future development)

Hub



Knob control

Stove on or off/Hu man sensing Node1

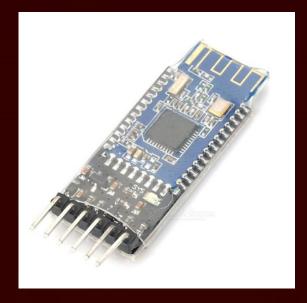




Hub







ARC EM Starter Kit

HM-10



Node1

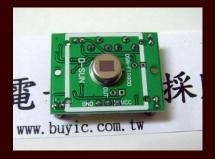
Stove knob



Arduino UNO R3 開發板



Pmod TMP2



人體紅外線感應模組



SG90 伺服馬達



Node2

Smoke detect







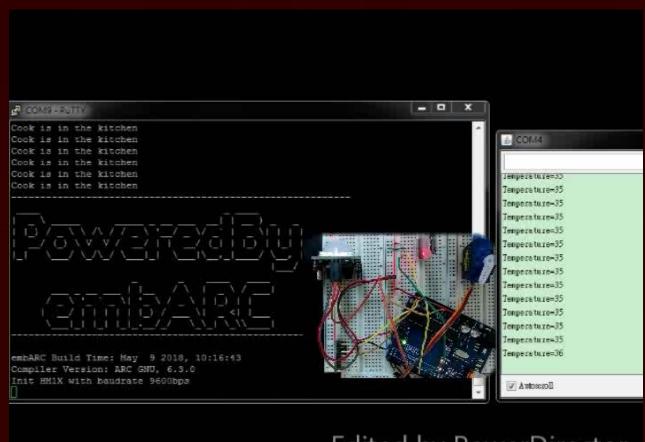
煙霧、甲烷、丁烷感測器模組



智慧瓦斯爐把手 功能演示

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訊號傳送示意



Edited by PowerDirector



Thanks for your attention

