Smart IoT Alarm Clock

An alarm clock that uses facial recognition to turn off and track how fast you wake up

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Purpose

Allows the user to set an alarm time to wake up. To wake the user up, the alarm sounds off with a speaker. To turn off the speaker, the alarm uses a camera to recognize the user's face, else it keeps sounding off for 2 minutes before snoozing for 5 minutes. Once your face is recognized, the device sends a text to your phone.

Equipment

Hardware

- **Sensors**
    - Real Time clock (RTC)
    - Heart rate sensor
    - Camera
- Other Hardware **(WIP)**
    - LCD
    - Speaker
    - LED

Software

Smartphone Access - Yes
Raspberry Pi acquired - Yes
Cloud platform - Google IoT