

SMOKE QUIT KIT

Prepared by: Ng Siew Ling

ABSTRACT

Smoke quit kit facilitates smokers to reduce down the frequency of smoking gradually. It is sensible to smoke when quitters are smoking and an encouraged audio clip will be played. The watch consists of 5 buttons assigned as user interface that allow user to manage the operations of watch such as setting time and alarm, turning on and off the alarm, recording voice on watch as well as selecting the data information to be displayed like statistical result that user had smoked within a range of periods. Smoke quit kit construction can be categorized in 3 main directions: user interface, smoke sensor module and power management. A microcontroller is used to correlate with most of the components with few foremost techniques are adopted to achieve the features. Programming the integrated circuit is another issue to be observed. Embedded C programming language has been selected and widely used. Some software programs like Eagle, MikroC and PICKit are constructive and hence it made the progression of project more efficient. Smoke quit kit invention is implemented successfully to meet the requirements as distributed. A further improved can be taken consideration for a more distinctive product. For an example, it could be engineered in smaller size and fed into a ring like a diamond.

Keywords: Smoke sensor module GH312, microcontroller PIC16F877A, voice record and playback ISD1110, real time clock DS1307, LCD and SPST push buttons.