

# **AUTOMATED PILL DISPENSER WITH SCHEDULER FOR DEPENDENT PEOPLE**

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The importance of health and fitness has come to forefront in the last decade. With the advent of many health issues like diabetes and blood pressure etc., the necessity of a continuous medication without any breaks in between has become vast. Our automated pill dispenser reminds the patient to have the right dosage medicine at the right time and also sends alert messages to a stored mobile number once the stock of the medicines get over. The major components used here are alphanumeric keypad, an LED display, a Motor Controller, an Alarm system, a multiple pill container, a dispenser and a pinhole camera. The Alarm system is designed to provide two types of indications – one by lighting an LED and the other by providing a beep sound. The user is required to press a button to get the pill and reset the alarm button. The second alarm is to indicate the user hasn't closed the pill dispenser pouch and the third alarm is to indicate the optimal availability of the pills in the container to warn the user to refill the dispenser with the required quantity of pills. The count of the pill loaded into the dispenser and is entered into the database. Whenever a tablet is taken from the pill pouch, the count of each tablet will be decreased from the database. Once the tablet count has reached a specific count then the device sends a message to the stored mobile number. (Assuming the patient is consuming the tablets every session without missing the tablets). If the patient misses taking the tablet even after having alarm system then, the count of the tablet can be calculated using the pinhole camera. From the still image based on the tablet size and shape, the tablets can be counted.

**Keywords-** Dispenser, Microcontroller, Pinhole camera, Pill count