

عنوان مقاله:

Design and implementation of pill box reminder for people with dementia

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خلاصه مقاله:

Older people are more susceptible to various diseases, including dementia, than other age groups in society, causing brain disorders that lead to loss of mental and social skills. These changes are so severe that can affect one's daily life such as sorting huge amounts of pills each day. Therefore the use of technological solutions for improving the safety and quality of life of these people becomes significant. This article consists on the conception, design and creation of a pillbox prototype that are intended to solve this defect in the medical field. The smart pill box reminder is programmable, enabling medical practitioners or patients to determine the type of the pills, dosage and timing to take them. The proposed smart pill box contains several separate boxes that the user can adjust the pill type and timing based on atmega8 microcontroller, the IC clock DS1307 and several buttons. Each box will have its own timing information which will be continuously compared to real world time. If the information matches the alarm will start to ring and will remind the patient to take his medicine. Also the user can see the information and settings of the pills stored in the EEPROM memory through the LCD

کلمات کلیدی:

Pill box, microcontroller, dementia, Alzheimer

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