Microcontroller based Medicine Dispenser and Reminder

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 177 - Number 7

Year of Publication: 2017

Authors:
Kunal Jagdale, A. Siddhartha Rao, Raman Hora

10.5120/ijca2017915803 {bibtex}2017915803.bib{/bibtext}

Abstract

The main objective of the project is to remind and dispense medicine at right time to the right person automatically from a single machine. The ratio of nurses per patient in developing countries is very low along with this the availability of 24 hours’ medical staff is also ambiguous which has led to the occurrence of easily avoidable death as well critical situation leading to a ruckus in the health industry. The medical dispensers which are available today are expensive and there is less availability of products that are a combination of a reminder and a dispenser. Automatic medication dispenser is designed for people, who undertake medication without professional supervision,

The product can be used by an individual as well as multiple patients. It saves the person from the error-prone task of administering wrong medicine at the wrong time. The prominent components of this project are push buttons interfaced with a microcontroller, LCD Display, a motor controller, an alarm system, multiple pill container, and dispenser. The prominent operation is to facilitate the patient in taking correct medication and avoid any mishap due to
negligence or improper care. The Alarm system is designed to provide two types of indications one by lighting an LCD and the other by providing a beep sound.

The major goal is to keep the device easy to use and economic. The software that works is dependable and stable. The elderly population will be gain enormously from the device as it can replace sumptuous medical care. This can be a boon for the elderly as well as the poor sector of the society.

References


Index Terms

Computer Science             Biomedical

Keywords

Microcontroller, Medicine Dispenser and Reminder, Arduino, Motor Controller