ERÜ BİYOMEDİKAL MÜHENDİSLİĞİ

OTOMATİK HAP DAĞITICI

PROJE TANITIMI

Ghadir Nori 1031010459

Esma Dzakmic 1031010452

Tanıtım

Demanstan veya Alzheimer hastalıkları olan birçok yaşlı, ilaçlarını ne zaman alacağını veya hangi ilacın alınacağını hatırlamayabilir. Buna ek olarak, yaşlılar genellikle ilaçlarını alma ile zorlanır çunku haplar küçük ve kutuları kolayca açılmayabilir. Bu problemin çözümü olarak bu projeyi tasarlıyoruz.

A screenshot of a social media post

Description generated with very high confidence

Kulanılacak malzemeler(elektronik)

1. Mikrokontroler
2. Sıcaklık ve nem sensoru
3. LDR / Light dependent resistor
4. GSM modulu/WIFI modulu
5. Buzzer
6. LED ler
7. Servo motor
8. Stepper motor
9. Pil
10. LCD ekran

We are planning to make the pill box round with 4 or 5 pill departments which will be rotated by a certain angle using a DC stepper motor. Timer for taking each pill will be set using an external PC. While the timer is on countdown, temperature and humidity readings will be displayed on an LCD screen and an alarm could be added if the readings are outside the requiered limits for pill storage. 10 minutes before the countdown is over an SMS will be sent to user’s phone using a GSM module. When the countdown is over, trays will rotate and alarm will go on as well as a LED light. When a user wants to take the pill he will have to place a finger over LDR unit to block the light from LED. This will be read as an input signal to turn the servo motor on for opening the pill compartment. The same logic will be used for closing it. The system will be reset after that and new countdown will begin.