

# Smart Pill Box

## ECE 153B Project Proposal

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### Overview

I am building a smart pill box. In this project, the microcontroller will connect with the desktop via bluetooth. On the desktop, the user can set the timer for each kind of medication that will alarm when it's time to take it. Also, the user can find where the box is by pressing a button on the desktop, then the box will start alarming.

### Peripherals:

1. HC-05 Bluetooth module
2. Alarm speaker
3. 3-color LED
4. Bluetooth adapter
5. STM32 Nucleo Board

### Software Design:

1. Bluetooth connection and timer setup.
2. Desktop user interface

### Goals:

1. Allow user to find the box by click a button
2. Alarm the user when to take which kind of medication

### Group Responsibility:

It is a single person group so I will take care of all the responsibilities. I think the software will take the majority of the time to write.

Project Website: <https://sites.google.com/view/smart-pill-box/home>