Lumma: Smart Pill Dispenser

IOT COURSE 2 PROJECT

The Mission

Lumma is a smart pill dispenser for those who struggle with taking and keeping track of their medication. It was developed to be an effective and affordable solution for everyone. Millions of people take multiple pills each day and researchers have found that around 40 percent of us don't stick to our medication regimens.

Lumma is the first system for home use that completely automates the medication experience. It sorts and dispenses pills, while an accompanying mobile app notifies users when it is time to take medications and keeps track of everything.

Product Infrastructure

- Plastic container holding up to 12 types of pills

- Separate Reservoirs for each pill type

- Touchscreen

- Internal computer

- Battery backup

Sensors

- Internal computer keeps track of multiple pill schedules that is programmable from touchscreen or phone app.

Connectivity

- Interact with the device via touchscreen or their phone via Bluetooth

Analytics

- Programmable pill schedules

- Alerts user with lights and alarm when it's time to take medication

- The History function will show you what medication you've taken this week, as well as what pills you might have missed.

Applications

- From your phone app you can:
  - Schedule Doses
  - Get notified by phone alerts, text or email
  - Keep track of all medications and when you take or miss dosages
  - Share your history and notifications with loves ones or physicians
  - Easily get information about drug interactions and side effects