Smart Trash
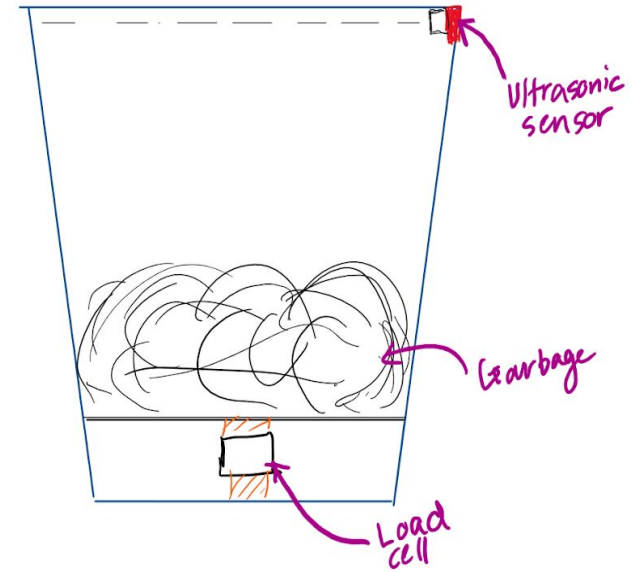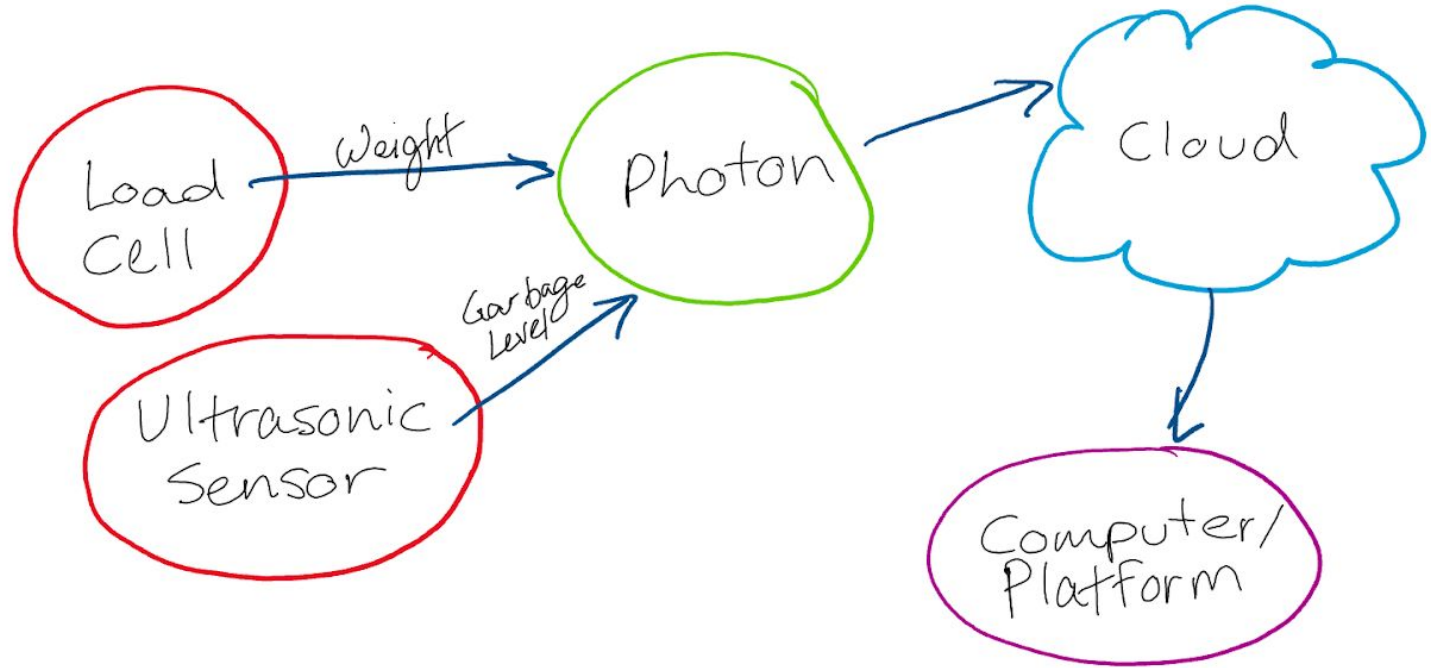
Our Product - Components

- Garbage bin shell

- Sensors:

  - Ultrasonic Sensor on side of the bin, toward the top

  - Load Cell on bottom of the bin

- Photon for WiFi connection

- Battery Pack

Our Product - How It Works

- Garbage bin measures if it is full with the ultrasonic sensor

    - If full, garbage will be in front of sensor, causing it to be triggered

- Weight of garbage is measured with the load cell

- Timer measures how long it takes for bin to become full

Our Product - Transfer and Collection of Data

Applications of this Technology

- Can be used within homes to measure garbage thrown out

- Once the bin is full, the owner will be notified

- Homeowners can use app to keep track of waste accumulated vs. time

  - This can help show user patterns in their garbage outputs, to change these habits to reduce waste

Applications of this Technology

- Can be implemented into public garbage bins

- Allows for city to know which bins are full and when this occurs
  - Can adjust schedules for garbage trucks if necessary
  - Tells city staff most effective locations for garbage bins

Questions