Objective

The Wireless Item Dispenser solves modern-day health precautions by minimizing the spread of germs. This dispenser has the functionality to be triggered via Bluetooth or detected within close proximity of an ultrasound sensor then will instantaneously set a stepper motor to open or close the dispenser. The dispenser shall remain open for a long enough time interval in order to dispense approximately 1-2 items.

Peripherals (external to STM32L476 board)

1. HC-05 Bluetooth Module
2. ULN2003 Stepper Motor & Driver Module
3. HC-SR04 Ultrasonic Distance Sensor
4. ELEGOO UNO R3 Controller Board
### Responsibility
Alejandro Diera
- Everything :)
7. If distance is close enough, enable interrupt that has STM32L476 send data to UNO R3 in order to dispense an item