

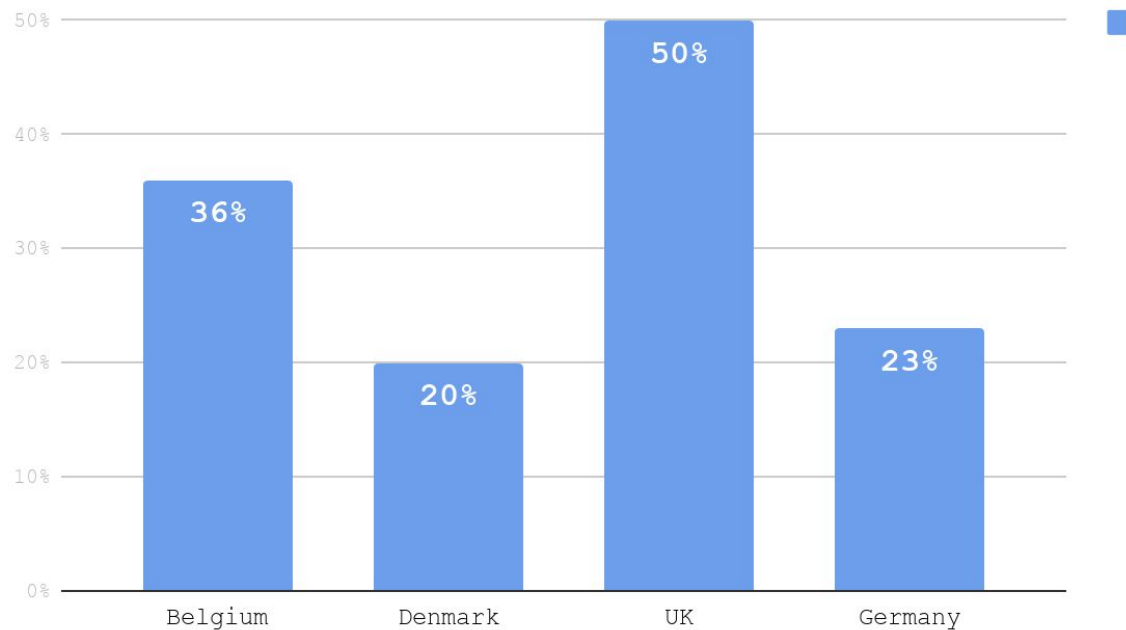
Eye-Truck

by Ava



State of the art

Cyclist traffic accident caused by Truck



Efforts from some car manufacturers

360° panoramic image system

Ford: Blind spot information system

Volvo FH series trucks: Sensors on the right side

Expensive

Installed in specific series of cars

Not flexible



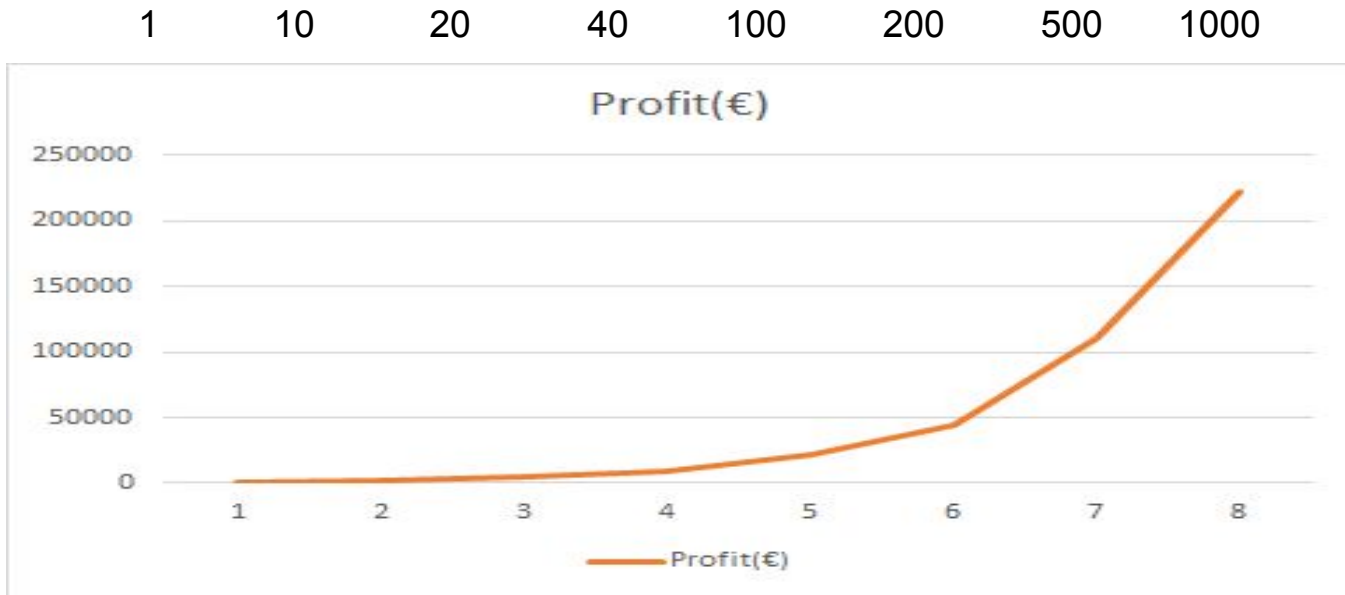
EYE-TRUCK

Business Plan

| | Sensor box | Light box |
|-------------------------|------------|-----------|
| Budget | 26 € | 24 € |
| Price | 50 € | 40 € |
| Estimated annual sales | 9600 | 2400 |
| Estimated annual income | 268800 € | |

Forecast

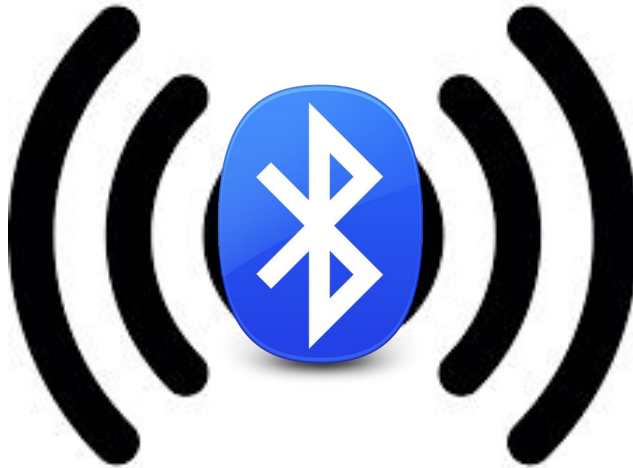
Sell
Forecast
(Unit)



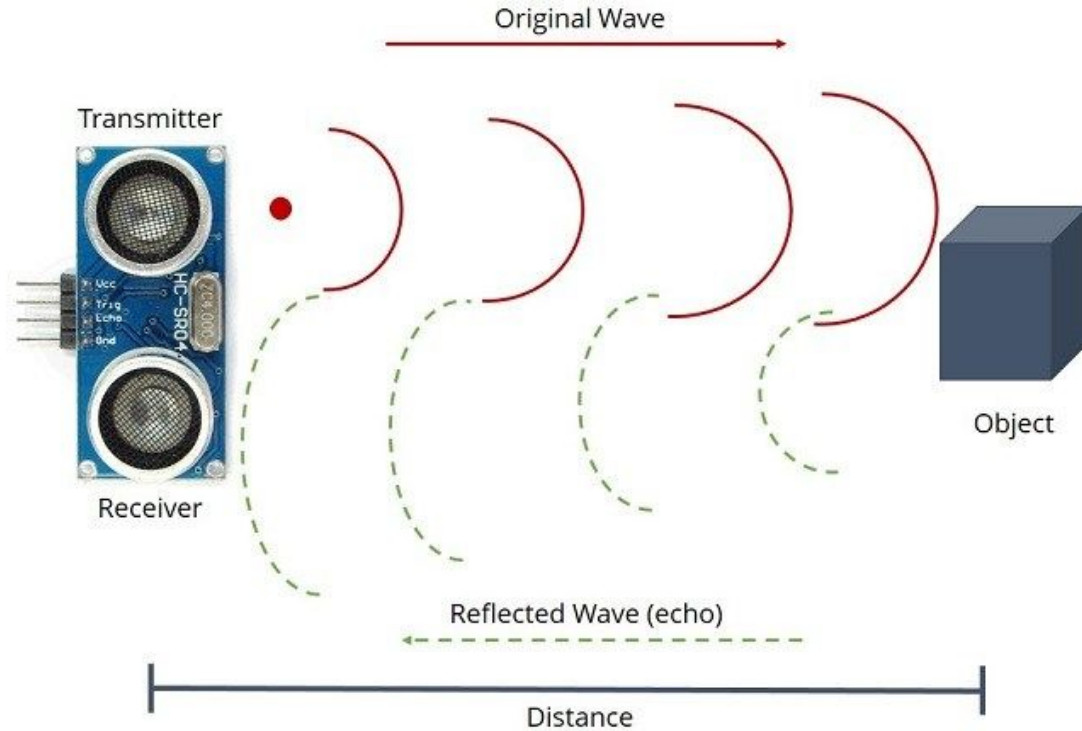
Product Description



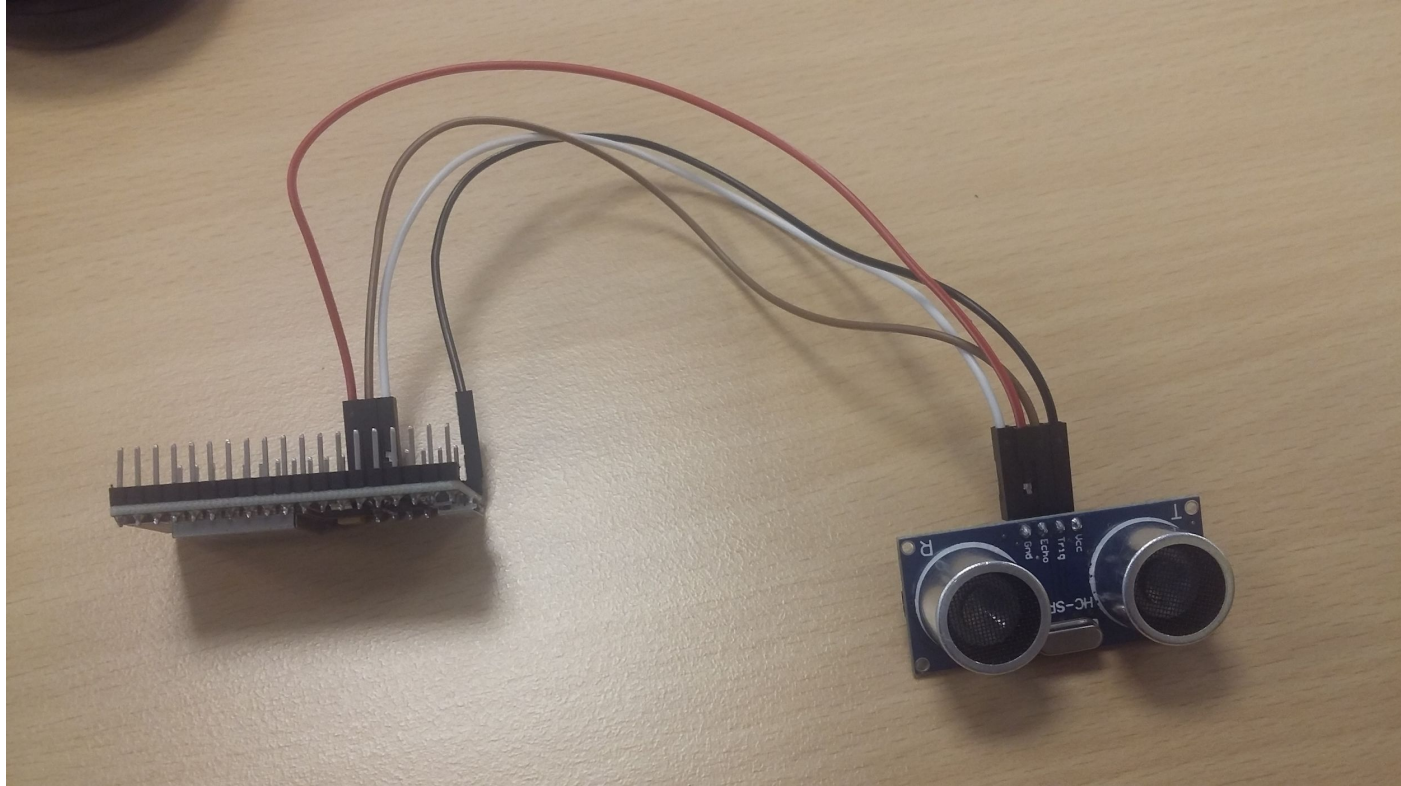
Product Description



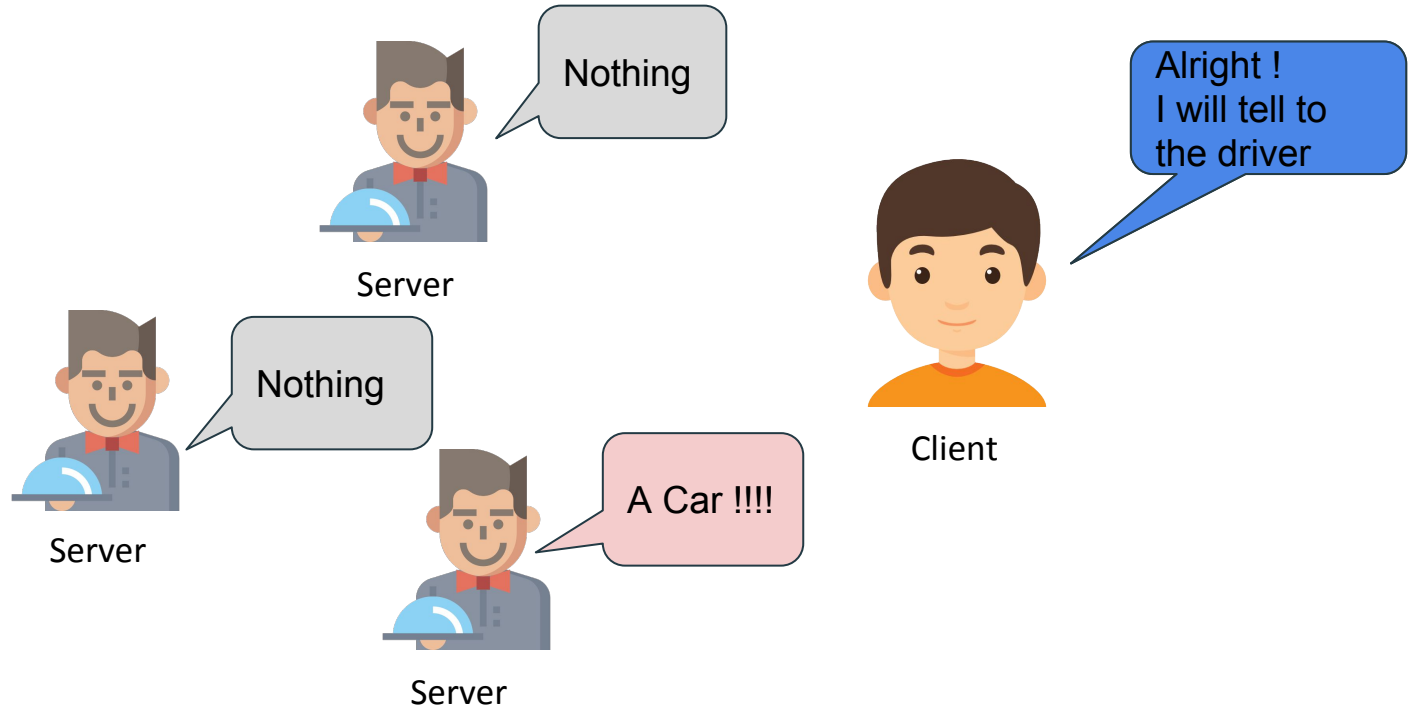
Ultrasonic Sensor HC-SR04



Ultrasonic Sensor HC-SR04



BLE (Bluetooth Low Energy) Architecture



BLE Connection from the sensor



Server that send data : Y/N
Compute the distance by itself

https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/radar_BLE_final/radar_BLE_final.ino#L88

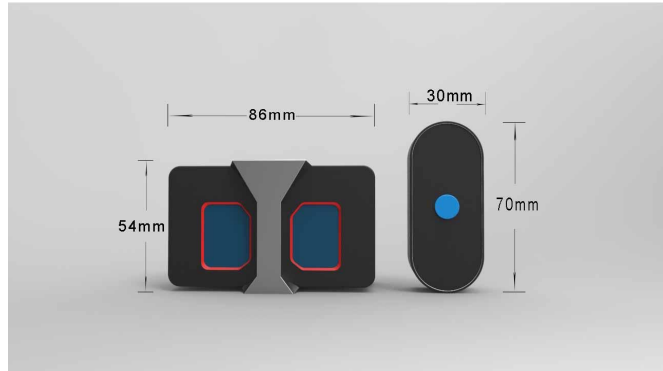
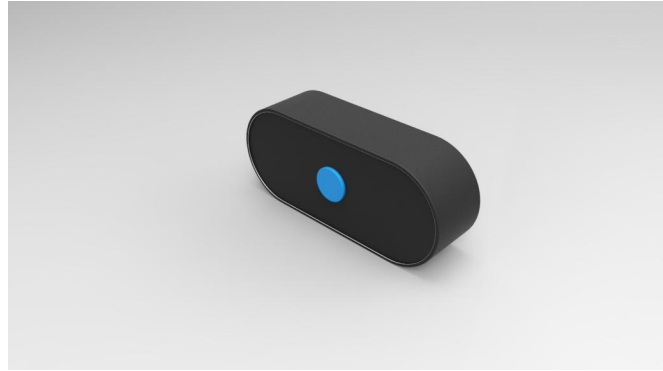
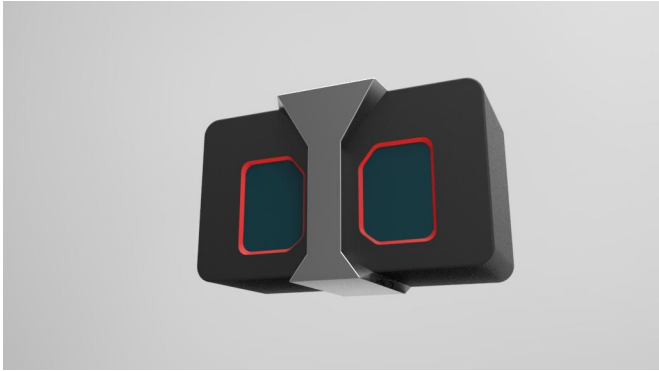
BLE Connection from the LED



- Client that search for servers
- Switch on if receives the instruction from the sensor

https://github.com/siiscil/iot-projects/blob/ba8318941470692b28aea04f5361a19d64830157/ava/BLE_client_LED_final/BLE_client_LED_final.ino#L159

Box



Test



Save life
buy
Eye-Truck