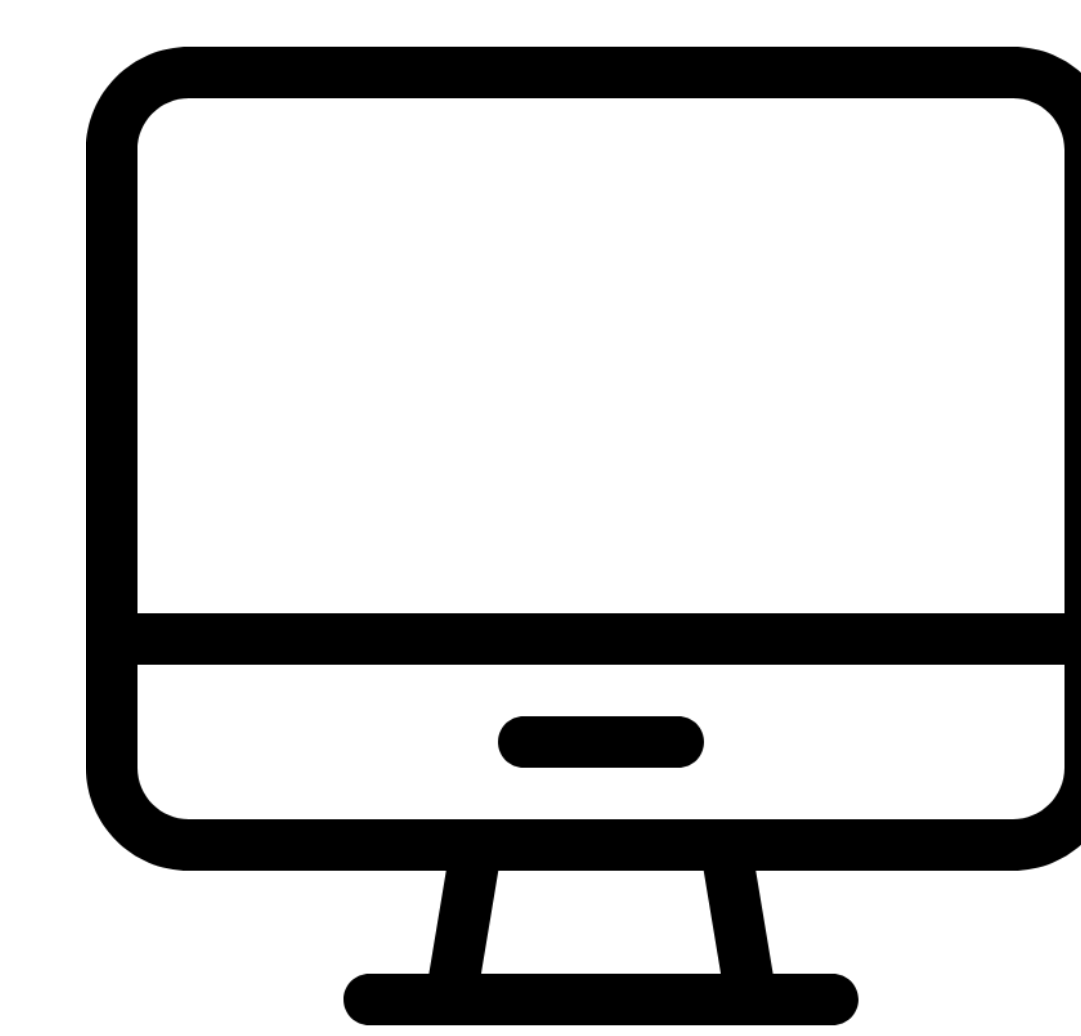


# IOT Distance Sensor Alarm

Lee Magoto

Advisor: Dr. Andrew Rettig

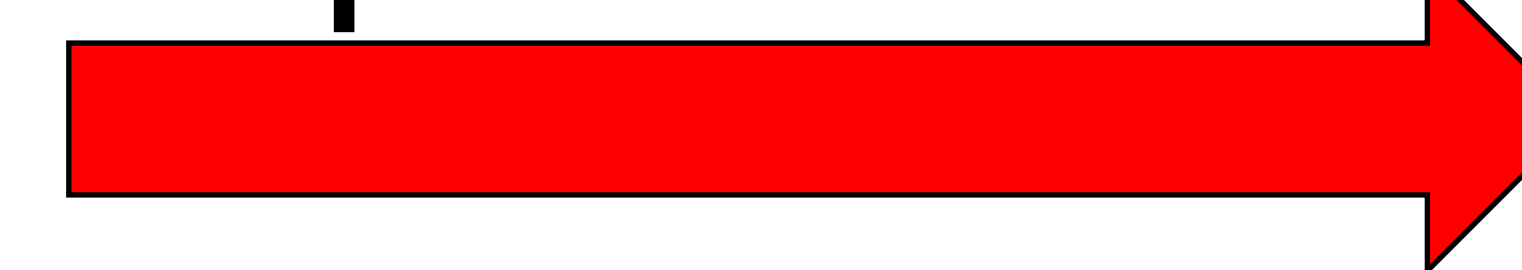


**Web  
Server**

**Ultrasonic  
Sensor**



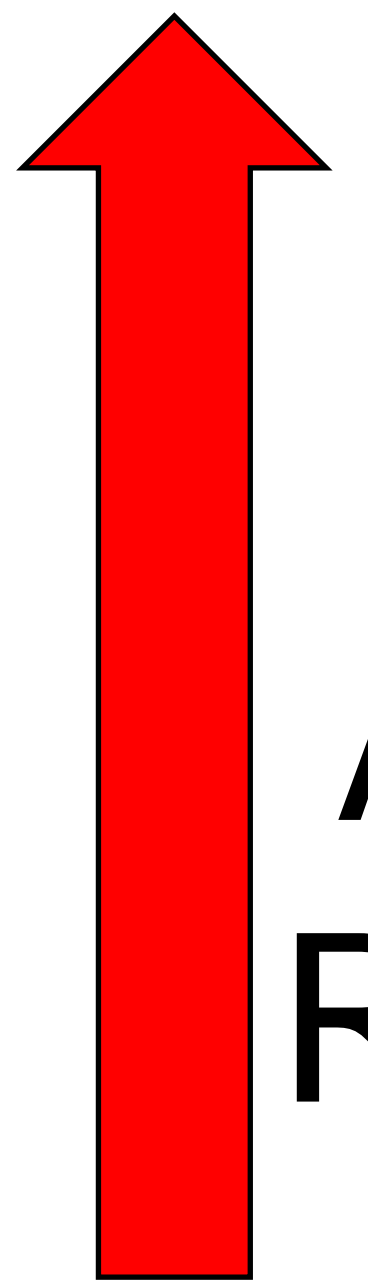
Trip Detected



**ESP32**



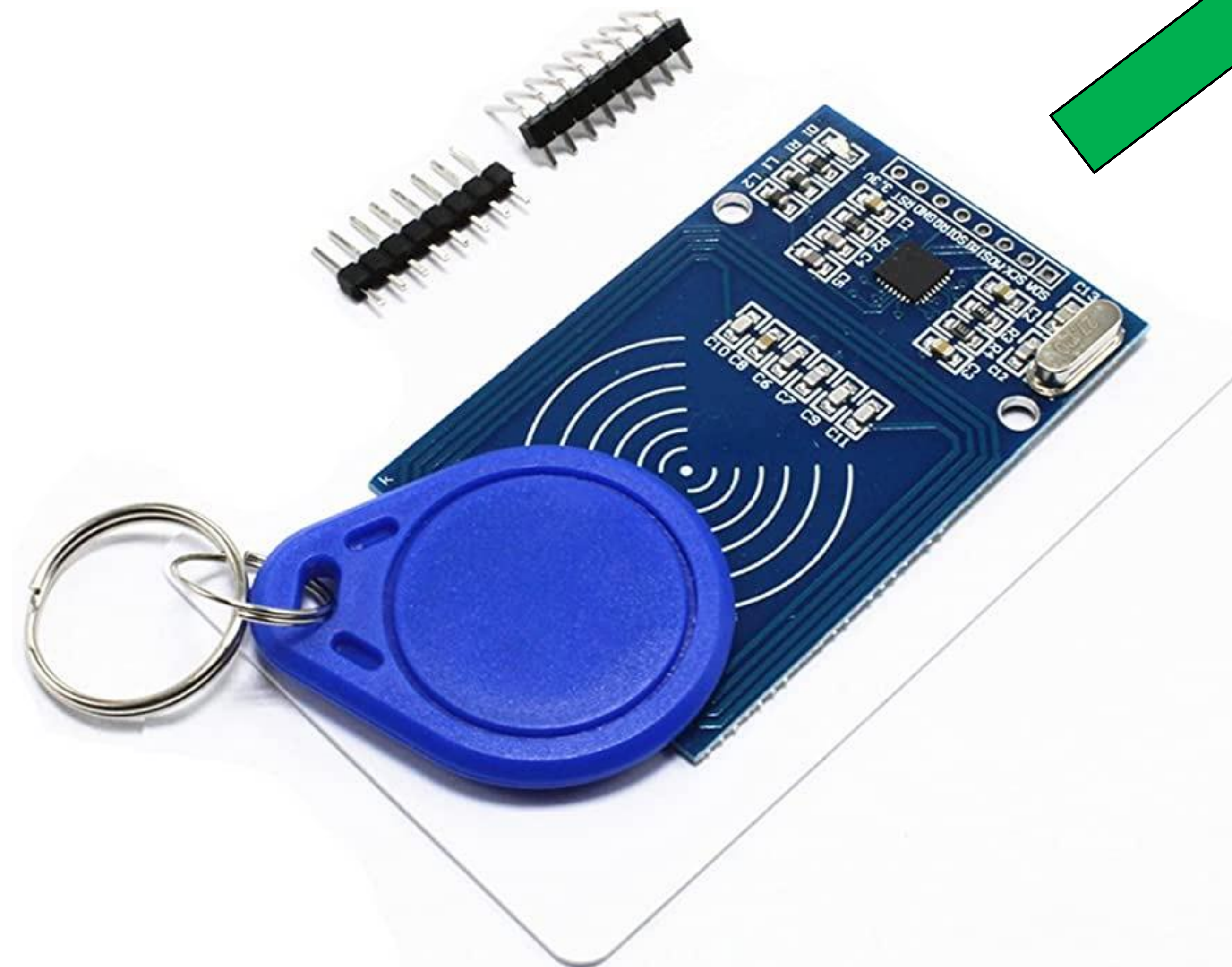
Alarm  
Raised



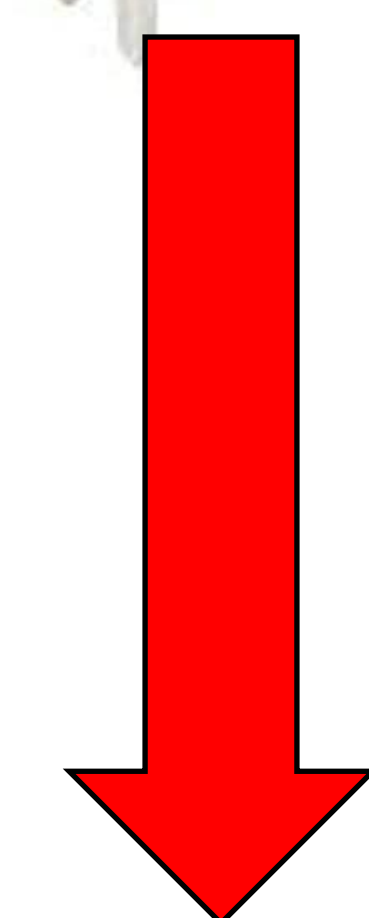
Deactivates  
Alarm



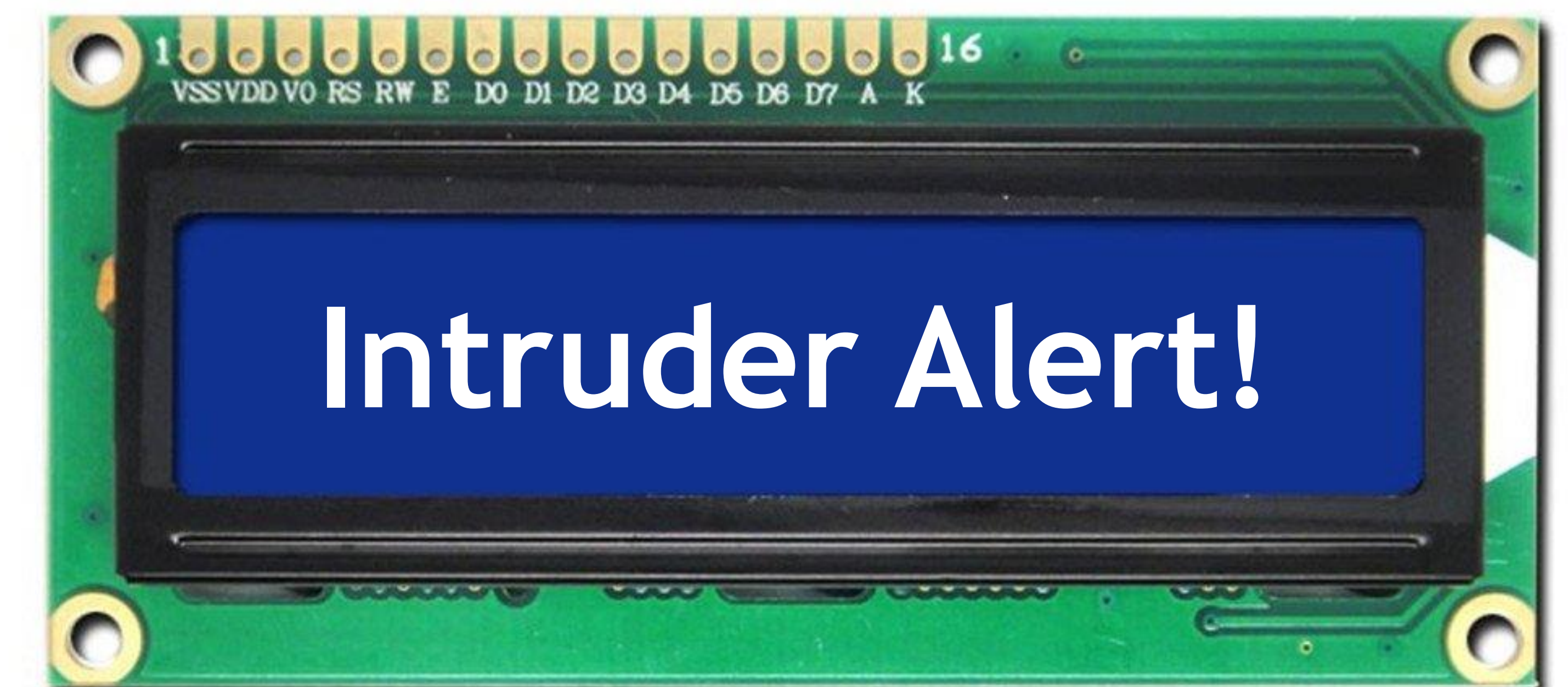
**RFID Module**



Alarm  
Raised



**LCD Module**



**Intruder Alert!**

When someone comes within range of the **sensor**, the **ESP32** will be alerted and raise an alarm. This alarm can only be deactivated through the use of the **RFID Tag**.