



## Drown-Alert Wearable Device and System Demonstration

Please scan the QR code  
for the YouTube video  
demonstrating the  
Drown-Alert system.

A live demonstration required me to  
use water which is not allowed in the  
science fair

Alternatively, you can go to this bit.ly link  
in your browser for the same  
demonstration video

<https://bit.ly/2NICcFi>

# Drown-Alert

Connect to device: **Connect**

Disconnect from device: **Disconnect**

Connection status  
**Not Connected**

**Alerts go here**

Drown-Alert Wearable  
Device and App.

Parents will have the app on their phone and the child will be wearing the device around his/her waist. The red light on the front of the device is off because the device itself is turned off.



Connect

C4:74:1D:18:77:A2 Charge 2

E2:C5:BF:5E:D6:FA S530

AC:7A:4D:DE:1E:A8 LEXUS ES

C2:78:B6:C4:33:EC BT-01

BC:BC:A5:6E:47:EF BT-01

00:14:03:06:7F:E1 DSD TECH  
HC-06

D1:6C:37:C7:5D:2F Charge 2

D9:94:6F:37:64:53 BT-01

20:3C:AE:BC:80:1F Beats Solo<sup>3</sup>

Here the parents are pairing their phone with the proper Bluetooth network. The child would be wearing the device and the parents will pair their phone with the device before leaving their child. The red-light is on signifying that the device is turned on and the app is displaying all of the Bluetooth network addresses that it can connect to.





# Drown-Alert

Disconnect from device: **Disconnect**

Connection status

**Connected**

**Your baby is fine.**

After pairing the phone and the device, the parents can leave their child be. The device will stay connected with the app as is shown by the message on the app's screen. The red light has stopped blinking because the device and the phone are connected. Also, once the connection has been established, the connect button disappears and the disconnect button appears.



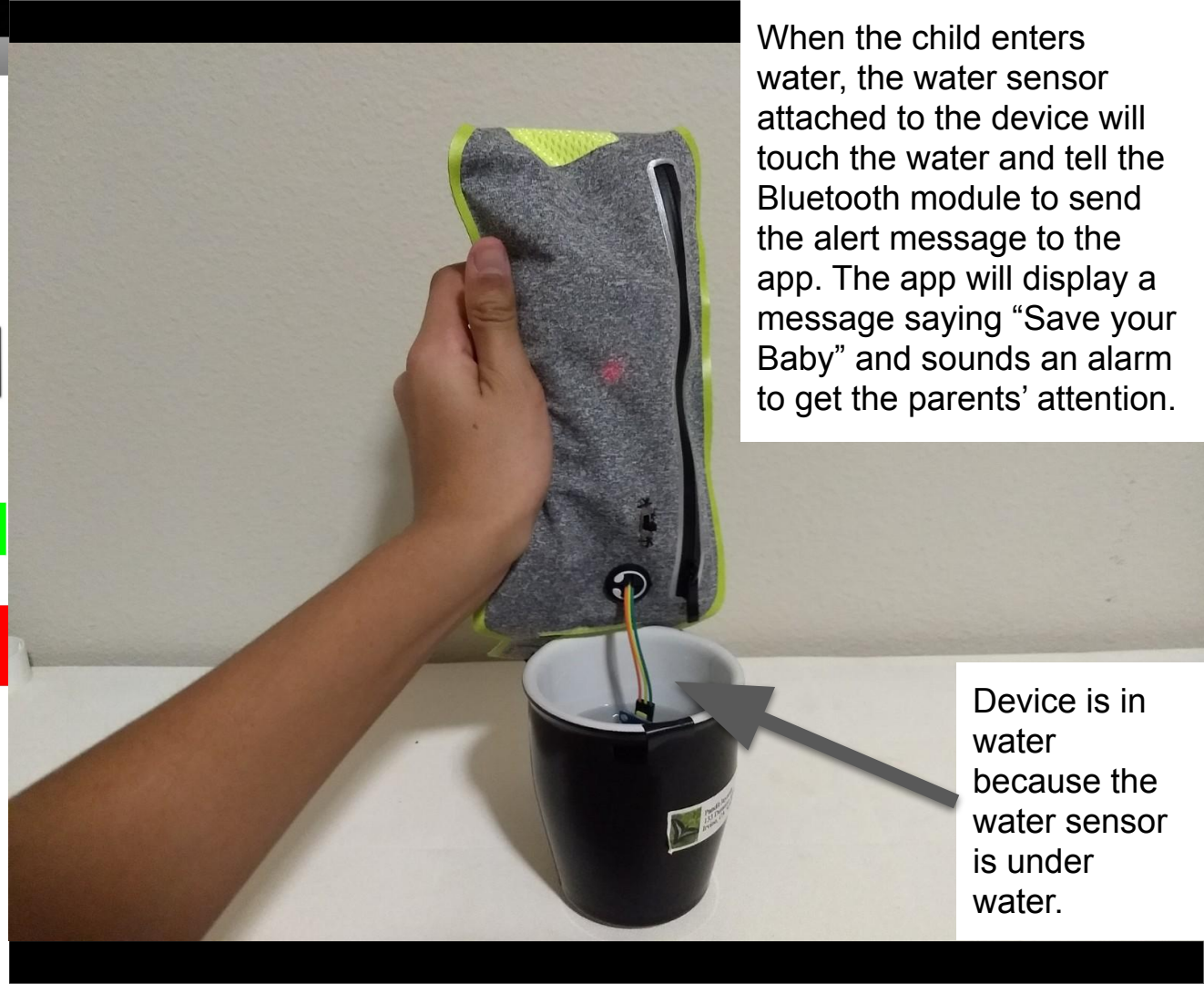
# Drown-Alert

Disconnect from device: **Disconnect**

Connection status

**Connected**

**Save your Baby!**



When the child enters water, the water sensor attached to the device will touch the water and tell the Bluetooth module to send the alert message to the app. The app will display a message saying "Save your Baby" and sounds an alarm to get the parents' attention.

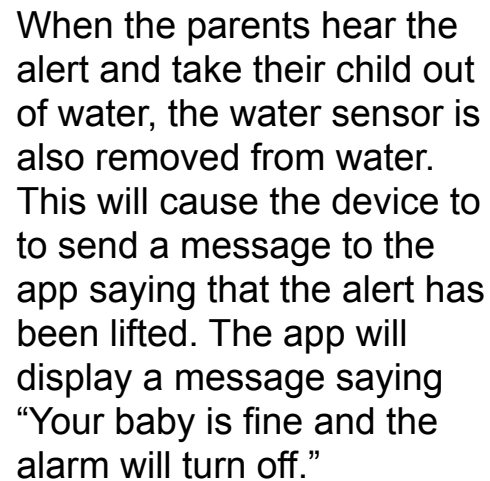
Device is in water because the water sensor is under water.

Disconnect from device: **Disconnect**

## Connection status

## Connected

# Your baby is fine.



Device is out of the water because the water sensor has been removed.



# Drown-Alert

Connect to device: **Connect**

Connection status

**Disconnected**

The parents can then disconnect their phone from the device by clicking the disconnect button. The disconnect button disappears after being clicked and the connect button reappears. After disconnecting the device from their phone, the parents can turn the device off by switching the switch.

