Requirements:
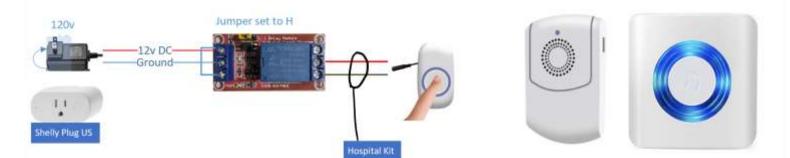**1.** Be able to use Tobii to alert Caregiver

Solution – High Level:

1. We provided a solution that allows Brian to use a custom button we created in Communicator 5 to initiate an alert notification to the Adaptive Tech Solutions wireless   Wi-Fi receivers so the caregiver can respond.

Details of the Solution

1 – Be able to use the Tobii Device to Alert Caregiver – Brian has ALS which has progressed to where Brian cannot use hands or voice to alert a caregiver. We provide a solution that allows Brian to use a custom button on his Tobii to activate Adaptive Tech Solutions receivers so the caregiver can respond. This same kit has been used in hospital to alert the nurses' desk by replacing the Adaptive Tech Solutions with cables.

Call Attendant for Home and Hospital for Tobii User
Home - use relay box + WDBA-FX-M-Plug Kit
Hospital – replace the button with the Hospital Kit

Parts Needed

Adaptive Tech Solutions Attendant Call WDBA-FX-M-Plug $75.00
12v Power Supply - Sansun (Amazon) $5.18
12v Relay board - (Amazon) $1.50
1/8" 3.5mm Male plug w/wire $3.00
uxcell 100mmx68mmx40mm $10.49
Shelly Plug US (Smart plug) $21.00
Hospital Kit -
3.5mm female to ¼" male $8.82
¼" mono male to dual mono ¼" female $10.18
¼" male to ¼" female 15ft extension cord $12.59

Code For Shelly Plug US on Tobii (Call.bat)

```
curl http://192.168.33.1/rpc/Switch.Toggle?id=0
timeout /t 5
curl http://192.168.33.1/rpc/Switch.Toggle?id=0
```

A custom button on the tobii screen executes the above code

Requirements for the Eye Gaze device – The eye gaze device must be able to execute a curl command. A Windows Based Tobii running Communicator 5 works, cannot speak for other platforms. The most straightforward way of implementing the Shelly Plug US is to use the default gateway IP address. A direct connection is then made between the Tobii and the Shelly Plug. This approach would require adding a dedicated USB Wifi device to the Tobii if the user wants to be able to use the Tobii for internet related activities. (Browser, email, etc). Therefore make sure the Tobii has an available USB port, otherwise you need to add a USB Hub. The Shelly Plug can utilize DHCP, but this would require reconfiguring the Shelly plug when moving between facilities.

Wires From Power Supply
Red -> +12v to "+DC" terminal
Black -> Ground wire to "-DC" terminal
Jumper wire connects "+DC" terminal to "in" terminal

Power supply plugs into Smart Plug
Shelly Plug US is controlled by an object on the Tobii screen that executes a small batch file. (See code)

Relay wires to Adaptive Tech Solutions button – 3.5mm (1/8")
Red wire to relay Common terminal
Brown wire to Relay Normally Open terminal