

Requirements:

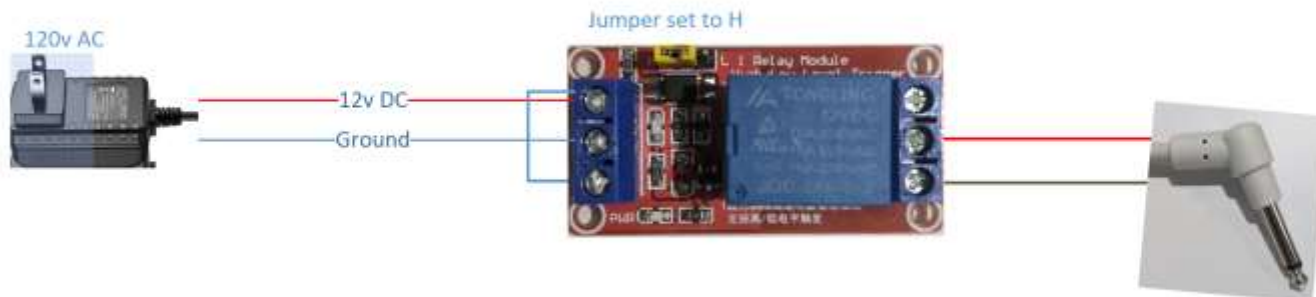
1. Be able to use Tobii to alert the Nurse Desk in a care facility

Solution – High Level:

1. We provided a solution that allows Dez to use a custom button we created in Communicator 5 to initiate a standard call nurse event in the care facility.

Details of the Solution

1 – Be able to use the Tobii Device to Alert the Nurse Desk – Dez has ALS which has progressed to where Javid cannot use hands push the nurse call cord. We provide a solution that allows Dez to use a custom button on his Tobii to initiate a standard nurse call event.

Call Attendant for Care Facility for Tobii User**Parts Needed**

12v Power Supply - Sansun (Amazon) \$5.18
 12v Relay board - (Amazon) \$1.50
 Nurse call call cord - (Amazon) \$18.95
 uxcell 100mmx68mmx40mm \$10.49
 Shelly Plug US (Smart plug) \$21.00

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.

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

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)

Wires to Wall Connector – Standard Nurse Call ¼" male plug

Red wire to relay Common terminal
 Brown wire to relay Normally Open terminal