

Steve C. Project – Detailed view (v1)

By Bill Weis

Requirements:

1. Be able to voice control (via iPad Tobii) his Golden PR515 lift chair/recliner
2. Be able to use his iPad based Tobii to call for help to his wife when needed

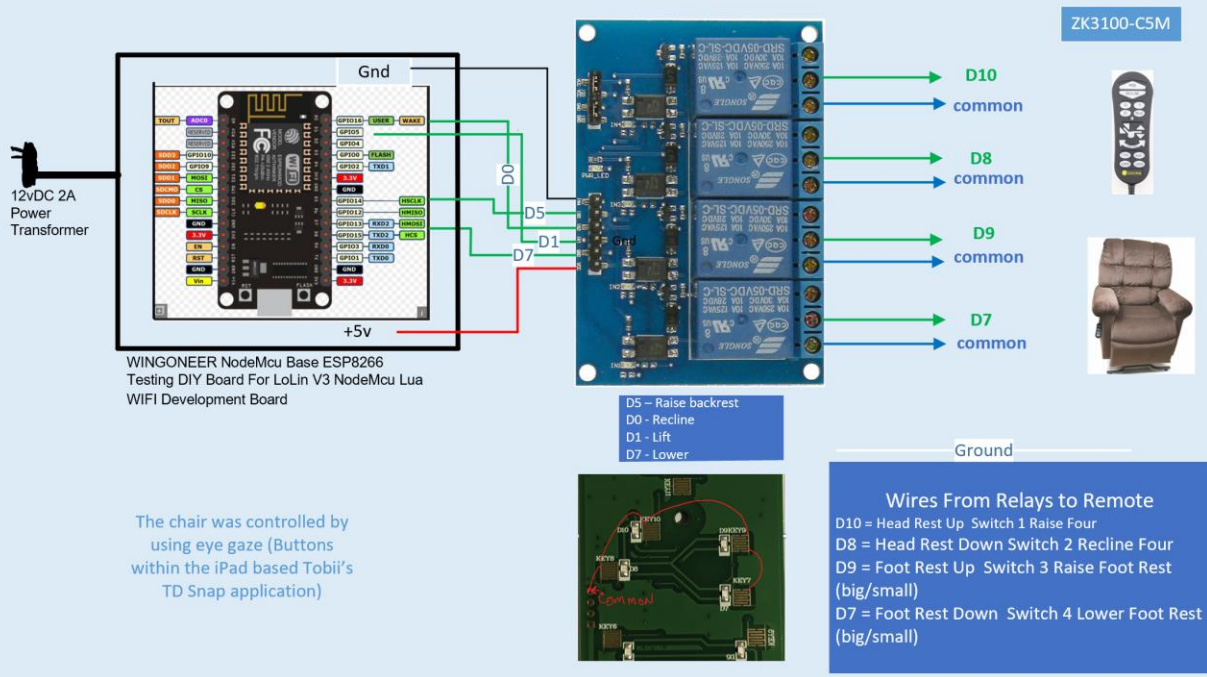
Solution – High Level:

1. We designed a solution for his Golden PR515 lift chair/recliner where Steve's iPad based Tobii can control his chair
2. We designed a solution that included a wireless Attendant Call device from Adaptive Tech Solutions, LLC.

1. Be able to voice control (via iPad Tobii) his Golden PR515 lift chair/recliner – We designed a solution that provided voice control for the Golden model PR515 lift chair. Since Steve's voice has been compromised by the affects of ALS, we had to setup his iPad based Tobii to speak the recliner commands on Steve's behalf. Eddy from Bridging Voice was brought in to assist with configuring "buttons" within the Tobii TD Snap application so Steve's eyes would be in control of his chair.

Here is a schematic of the recliner controller design

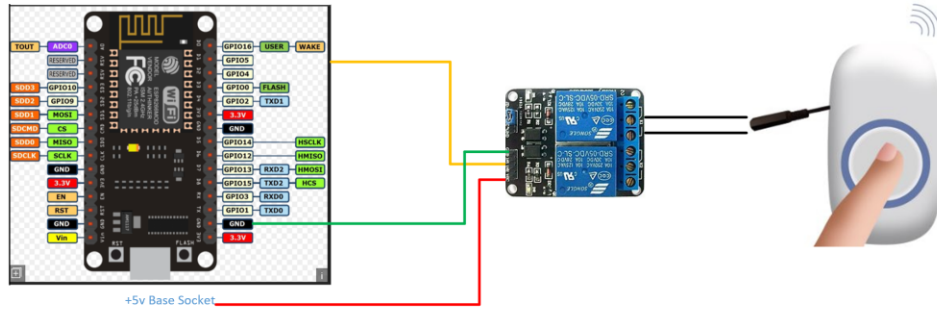
Voice Controller for Steve C. – Golden PR515 Lift chair
 Bill Weis 1-12-2023
 S/N 23116.01



- 2. Be able to use his iPad-based-Tobii to call for help to his wife when needed –** Steve’s voice is compromised from complications of ALS and he needed a solution so he could call to his wife for assistance. We found a device from www.AdaptiveTechSolutions.com called the [Wireless Attendant Call](#). We purchased the SKU WDBA-FX-M-Plug which comes with two receivers, one is a plug into the wall device and the other is a portable device that you can wear like a pager on your belt. The system operates on 433mhz, so it should have good coverage within a house and possibly close proximity outside the house as well. Future designs for this will likely just use a small relay box controlled by an Amazon Smart plug with a relay set to close the normally open contacts upon relay power up. When ordering the Wireless Attendant Call device, do not check the box “Remove Switch Adaptation” as this removes the external 1/8” plug that you will need to connect to the relays. A button was added to TD Snap in the iPad-based-Tobii so Steve can use eye control to activate the Wireless Attendant Call solution.

Here is the Schematic of the Attendant Call design

Steve C. - Voice Activated Attendant Call
1/2/2023
S/N 23113.01



www.AdaptiveTechSolutions.com – Wireless Attendant Call Button part WDBA-FX-M-PLUG. (Remove Switch Adaptation = No You want the external 1/8" plug wired connection to connect to the relay. This solution could have also been done using a Smart Plug and a small relay box where the relay was configured to close n/o contacts on power up.