GeorgeH Project - Detailed view (v1)

By Bill Weis

GeorgeH = Multiple Sclerosis

Requirements:

- 1. Be able to voice control his Invacare bed
- 2. Be able to voice control his TV

Solution – High Level:

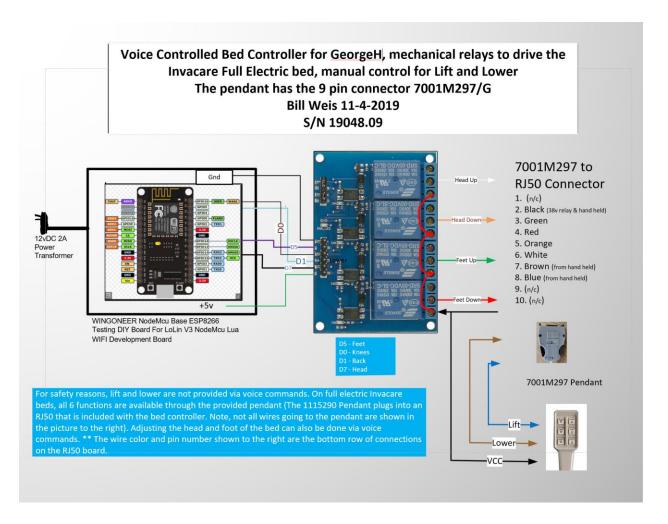
- 1. Designed a voice activated bed controller which gave George the ability to control all desired functions of his adjustable bed. He can control the bed using Google
- 2. Installed a Roku device on the living room TV so George can have control over selecting his entertainment with the help of the Quick Remote app to navigate the Roku screen.

Details of the Solution

1 – Voice Control his bed – George has a 6 function Invacare bed with a hard wired remote. He wanted the 4 buttons (head up, head down, legs up, legs down) on the remote to be voice activated. With our Invacare Bed controller design, we provide a connector to plug in a hand-held controller, so the bed can be controlled by voice as well as manually. For safety reasons, we did not provide voice commands for lift and lower bed.

The voice activated bed controller uses mechanical relays

Here is a Visio diagram of the solution.



2. Use voice commands to control the TV – We installed a Roku device on the HDMI port of the living room TV so George can control his entertainment. By adding Quick Remote to an android device, George and navigate the Roku screen with voice commands.

Resources

Amazon Echo

<u>Alexa Support</u> (Contact Support via the Amazon Alexa app - can have them call your number)

Google Home getting started

Google Home Help Forum

Google Home Support Phone number for Google Home hardware support = 855-971-9121 (24/7 days a week)

Wemo Support Phone number for Support = 1-844-745-wemo (9366)

inside the bed controller box. The drawing on the following page shows the voice activated bed controller, solid state relays and the remote.