

Jake Pyle Project – Detailed View (v1)

By Bill Weis

Requirements:

1. Be able to control some ceiling fan lights by voice
2. Be able to use voice commands to control his Drive hospital bed

Solution – High Level:

1. We provided some wifi bulbs for the ceiling fan
2. Developed and provided a voice activated bed controller so Jake could control his Drive hospital bed using both Alexa and Google.

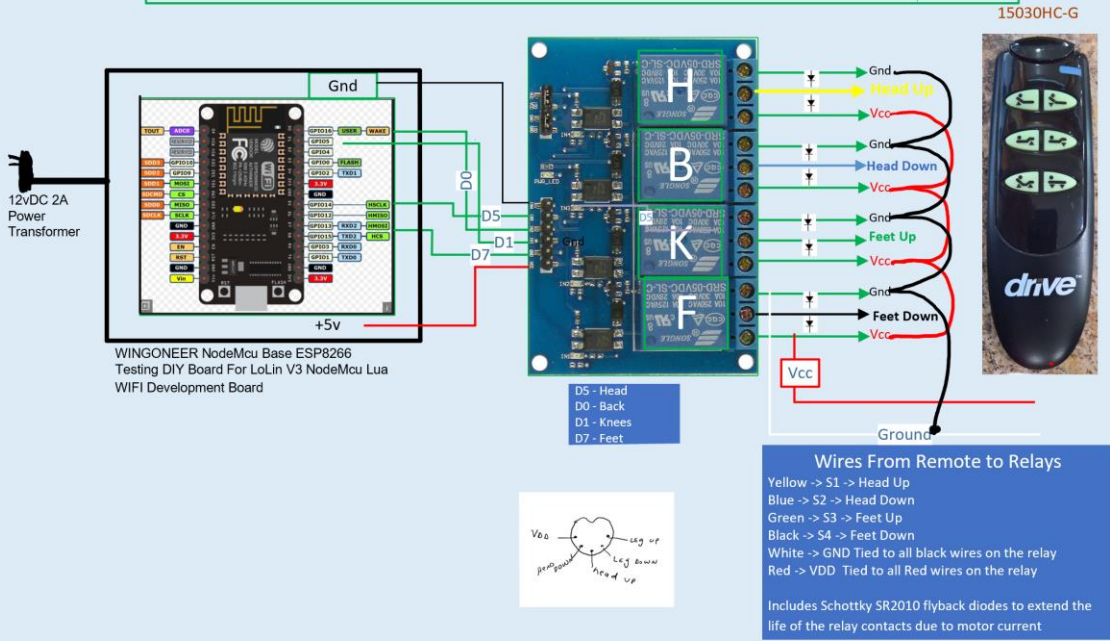
Details of the Solution

1. **Voice Control the ceiling fan lights** - We provided some wifi bulbs for the ceiling fan that can be turned on/off, dim, and change colors.
2. **Voice Control his bed** – The Drive hospital bed passes motor current through the hand held remote and utilizes a combination of two switches to perform each function. This bed design is much more difficult to provide a backup (hand held remote) solution, so the approach we took is when the internet goes down, someone will need to replace the bed controller with the original handheld pendant.

The Drive bed that Jake has is semi-electric in that it has head up/down and foot up/down, but it requires manual cranking for bed up/down. Jake can voice control his bed from both Alexa and Google.

The voice activated bed controller design can be found on the next page.

**Voice Controlled Bed Controller based on ESP8266 E-12 NodeMCU and
Amazon Echo and Drive hand held remote for Medline bed (Jake)
Bill Weis 3-4-2023
S/N 18024.07**



Resources

[Amazon Echo](#)

[Alexa Support](#) (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)

[Logitech Harmony Knowledge Base](#)

[Logitech Harmony Support](#) Phone # for Support = 866-601-5644 (M-F 8am to 6pm PST)

[Lifx](#)

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