# Brian M. Project – Detailed view (v1)
### By Bill Weis

Requirements:
1. Be able to use voice to control his adjustable Drive Full Electric bed

Solution – High Level:
1. We designed a voice activated bed controller that allows Brian to control his Drive Full Electric bed.
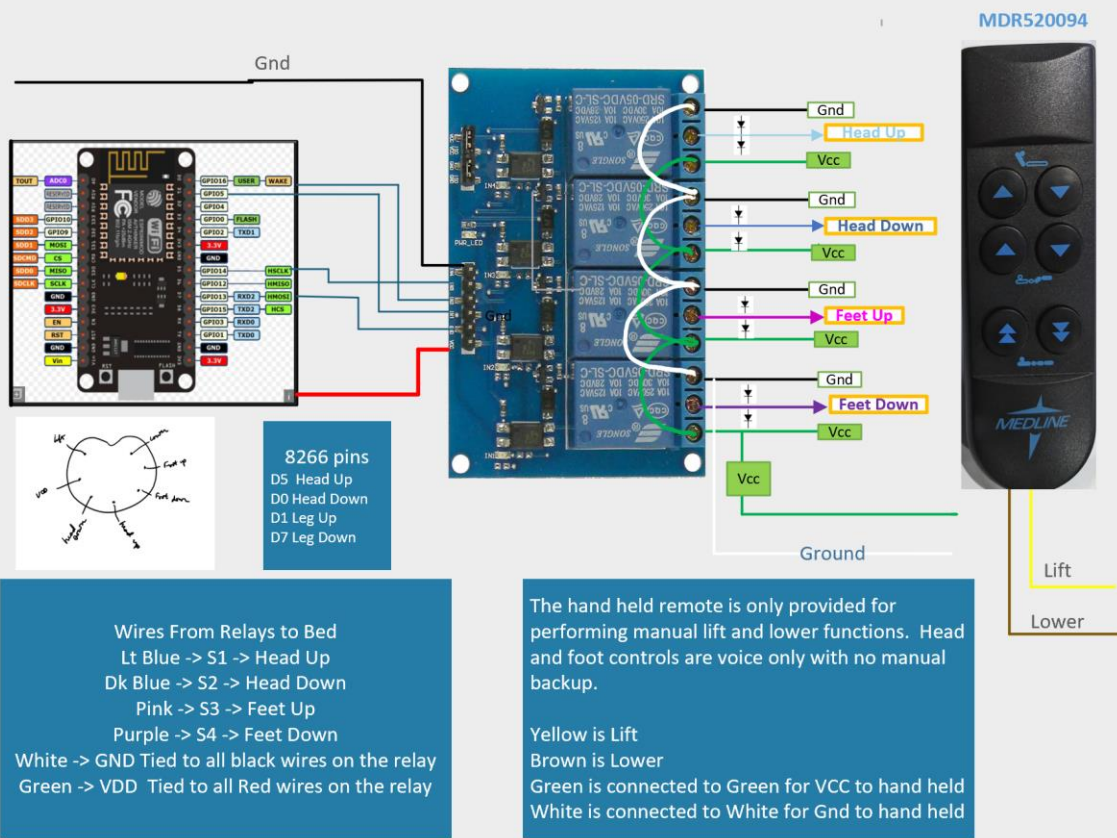
**Details of the Solution**

**1 – Be able to use voice commands to control his Full Electric Drive bed –** Brian has a Drive bed with a hard wired 15033HC-G remote. He wanted to be able to use voice to raise and lower the head/foot of the bed. We provided a voice activated controller along with several voice commands that run for different durations of time for the head and foot of the bed. Custom commands were then created to Brian's liking.  Our voice activated controller plugs into the bed in place of the standard hand control (15033HC-G). Since this bed also has a Hi-Lo feature, we added a hand control which allows the caregiver to raise and lower the bed manually. For safety reasons, we do not provide voice solution for Hi-Lo.

To extend the life of the relay contacts, we soldered Schottky SR2010 flyback diodes on the relay board.

**Here is a visio diagram of the bed controller**

## Drive Full Electric Bed with remote 15033HC-G for Brian M.
## Bill Weis 11/5/2022  S/N 19050.09

**8266 pins**
D5  Head Up
D0 Head Down
D1 Leg Up
D7 Leg Down

Wires From Relays to Bed
Lt Blue -> S1 -> Head Up
Dk Blue -> S2 -> Head Down
Pink -> S3 -> Feet Up
Purple -> S4 -> Feet Down
White -> GND Tied to all black wires on the relay
Green -> VDD  Tied to all Red wires on the relay

The hand held remote is only provided for performing manual lift and lower functions.  Head and foot controls are voice only with no manual backup.

Yellow is Lift
Brown is Lower
Green is connected to Green for VCC to hand held
White is connected to White for Gnd to hand held

**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)