

Will White Project – Detailed view (v1)

By Bill Weis

Requirements:

1. Be able to voice control his adjustable bed

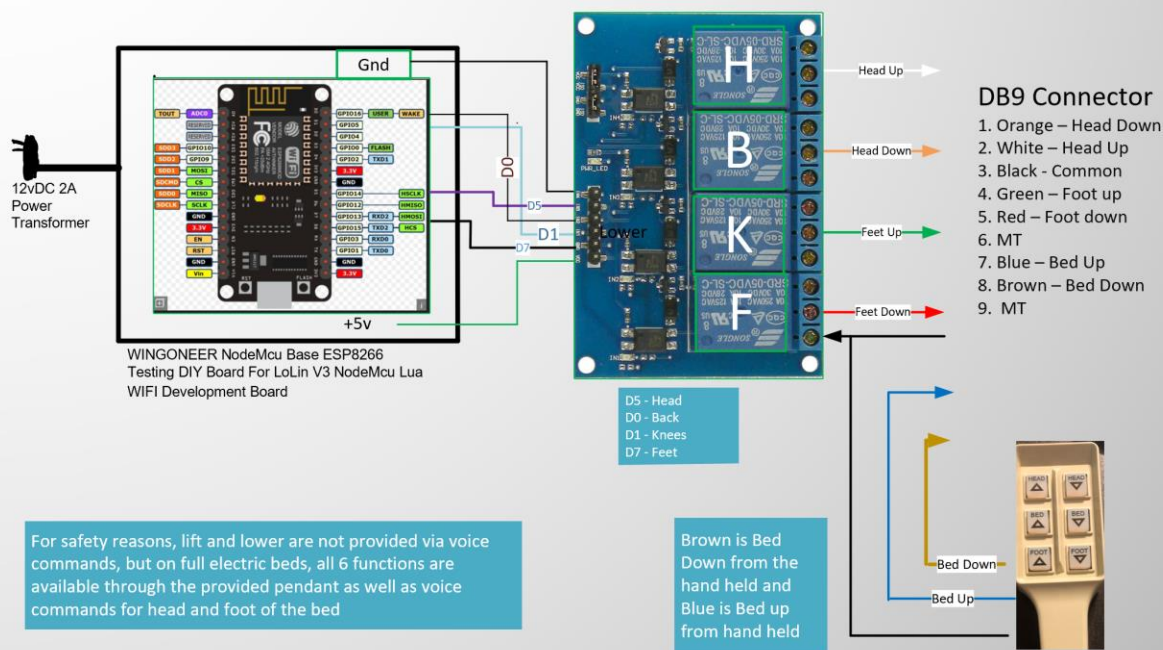
Solution – High Level:

1. Designed a voice activated bed controller which gave Will the ability to control the Head Up and Head Down as well as Foot Up and Foot Down functions of his adjustable bed. We also provided the means for all 6 functions including Bed Up and Bed Down to be manually controlled. He can control the bed using Alexa as well as the Google mini.

Details of the Solution

1 – Voice Control his bed – Will has an Invacare BAR54901VC adjustable bed which is controlled by a wired remote with a 9 pin DIN. This bed is a 6-function bed which includes Head Up, Head Down, Foot Up, Foot Down, Bed Up and Bed Down. For safety reasons, Bed Up and Bed Down require use of the provided hand held remote. The other 4 functions of Head Up/Down and Foot Up/Down can be controlled using the provided hand held remote as well as by voice commands. The voice commands can be issued through Alexa as well as through the Google Mini we provided. The benefit of being able to voice control the bed via either smart speaker is redundancy as well as to be able to compare the performance of Alexa vs Google.

**Voice Controlled Bed Controller for Will, mechanical relays to drive the
Invacare BAR54901vc bed, manual use of wired remote for Lift and Lower
Bill Weis 6/4/2020
S/N 18033.01**



Here is a Visio diagram of the solution.

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)

