

# Kyle Poole Project – Detailed view (v1)

By Bill Weis

Requirements:

1. Be able to voice control his bed (Invacare Full-Electric 1115290 pendant)

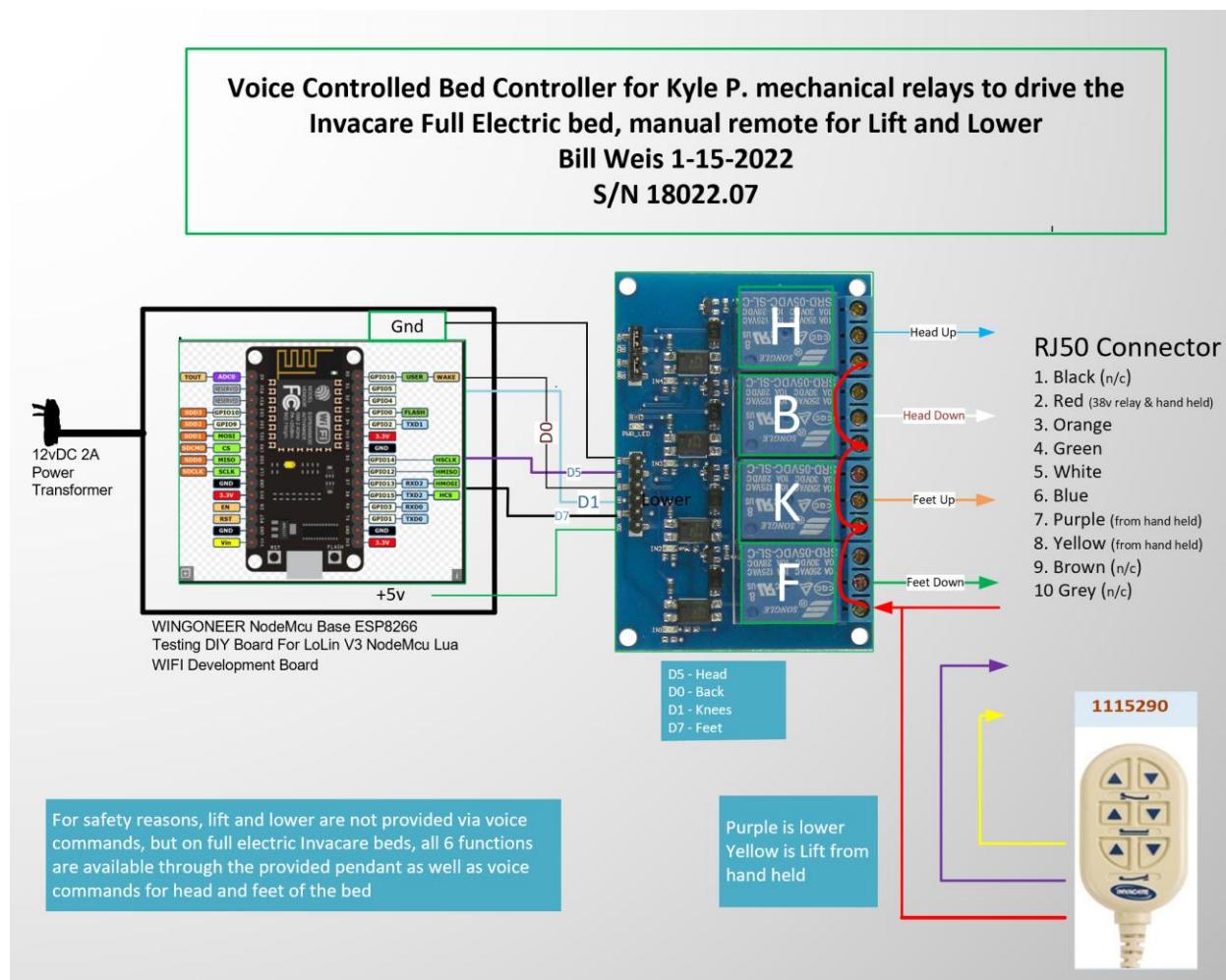
Solution – High Level:

1. Installed a custom voice activated bed controller to allow Kyle to control his full electric Invacare bed using voice commands.

## **1. Be able to voice control his bed (Invacare Full-Electric 1115290 pendant)**

Kyle's spinal injury has left him with limited control over his hands. We designed a voice activated bed controller which will give Kyle the ability to control his adjustable bed with a variety of commands. All commands run for a predetermined length of time and Kyle can choose the command that best suits his needs. The head of the bed can be raised/lowered in 1,2,3,4,5 &6 second intervals. It will require multiple commands to go from a flat position to a full up sitting position, but this approach is done for safety reasons. The foot end of the bed can be raised/lowered in 3, 4 or 5 second intervals. A nice feature of the Invacare bed design allows for us to provide a dual control environment. Both voice-activated control as well as adjustments to the bed via the pendant are possible. This is handy in cases where WiFi might be disrupted or if a caregiver chooses to adjust the bed manually. Also note that for safety reasons, we do not provide a voice solution for the bed Hi Lo feature, so still having the ability to use a hand remote without the need to swap cables is very handy.

Here is a schematic of the bed controller design



## 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)

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