

## ***Brittany - Quadriplegic***

### Requirements:

1. Be able to use voice commands to adjust her Leggett and Platt Prodigy 2 bed

### Solution – High Level:

1. Through an amazing partnership with Customatic and OKIN, new controls and actuators were installed to replace the original control box and actuators.

## **Details of the Solution**

Brittany, like many with limited mobility cannot achieve the desired level of comfort while in bed due to her physical situation. Adjustable beds are a great asset to those with limited mobility, but only if they can control the movement of the bed. If they have lost the ability to work the hand controls of the adjustable bed, they are putting someone else in control of their comfort. Our own experience shows that if you give someone the ability to control the adjustable bed themselves, they will make significantly more adjustments than if they had to rely on a caregiver.

One way to give someone with limited mobility control of their adjustable bed is to implement a voice solution. Brittany's bed is a Leggett and Platt Prodigy 2, and to date Leggett and Platt does not offer a voice solution. A decision was made to remove and replace the existing controls and actuators with new actuators and a Customatic control box that supports voice. For this project, OKIN very generously built three custom actuators that matched the specs of the original actuators including stroke length, and Customatic provided the control box which included the voice solution. One aspect of Customatic's approach to voice is it does not require Alexa or Google devices; in fact, it does not even require Wi-Fi. All commands are kept local which has many benefits.

Some incredibly special people made this project possible. Dan Riley (Sr. Electrical and Project Engineer, Customatic) along with Phil Sherman (President of Customatic). Dan donated significant time by overseeing and coordinating all the technical activities, and with support from Phil the control box and voice solution were donated. Once again, many thanks to the great people at OKIN who built some custom actuators to our specs and donated them to this project.