



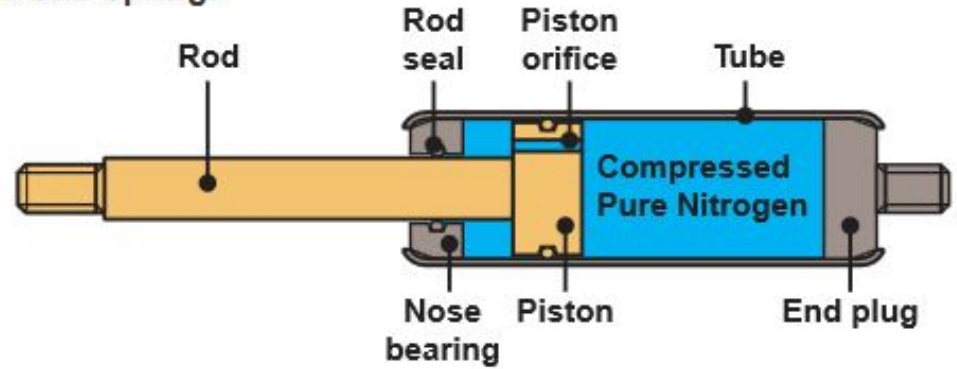
# Gas Spring Mechanism



# About Gas Spring

- Provide upward force against weight (slow down a transition from standing to sitting)
- Pressure difference is the source of force
- Force strength is adjustable
- We will use lockable gas spring

The Gas Spring:

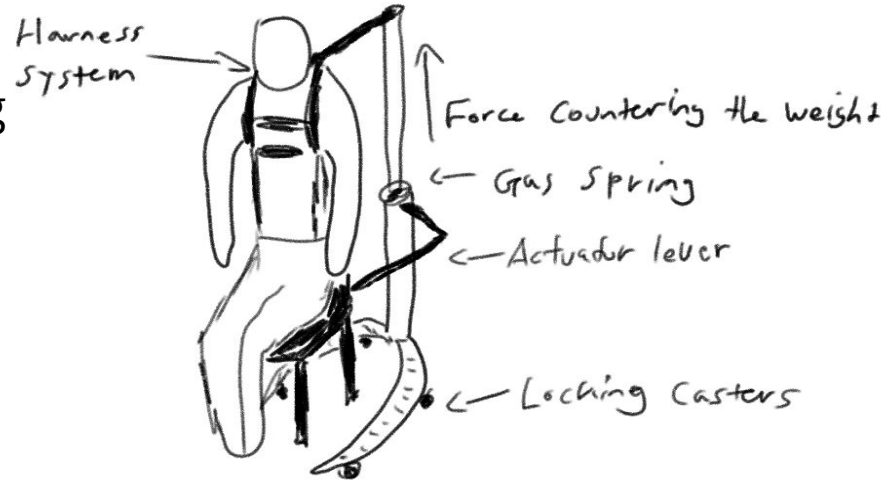


# Initial Design

- Using harness system as a connection between Gas spring and user
- Actuator lever can be replaced with a button
- Locking casters for safety during transition
- Harness should be easy to put on and take off



**Initial design drawing**



# Videos & Website

- Lockable gas spring with easy unlock button

<https://www.youtube.com/watch?v=pKBSV4tkOwM>

<https://www.youtube.com/watch?v=HojDjwwRZ04> 2:21

- Gas spring selling website with various stroke length and force

<http://www.acecontrols.com/us/products/motion-control/industrial-gas-spring-s-push-type/gs-8-to-gs-70.html>

- Showing how strong it can be

<https://www.youtube.com/watch?v=iuZ2uWWrlds>