DIY Level sensor to control air suspension

The concept:

Arduino for the controller

Something else for the display in the cab

* Maybe part of an integrated raspberry pi thingie or something else…

Start with this tutorial for basic sketch

<https://create.arduino.cc/projecthub/Aritro/getting-started-with-imu-6-dof-motion-sensor-96e066>

and add custom control part.

Output to relay board

Relays control air solenoids to pump or dump

MODES:

1. Parked. Slam all bags. Inflate whichever bags to level the truck (MODE 0)
2. Drive. TBD, a set pressure in each bag. (MODE 1)
3. Extra. Inflate all to max pressure and deflate whichever to level truck (MODE 2)
4. (MODE 3: imposible)

SWITCH BITS FROM SWITCH IN DASH: 2!

Code:

1. Arduino wakes up
2. When catching interrupt from MPU6050
   1. Read eeprom for last status (int?)
   2. Send current status to control panel for display
   3. When catching interrupt
      1. Read current requested status
         1. If different, do something and store new value in eeprom
         2. If same, do nothing