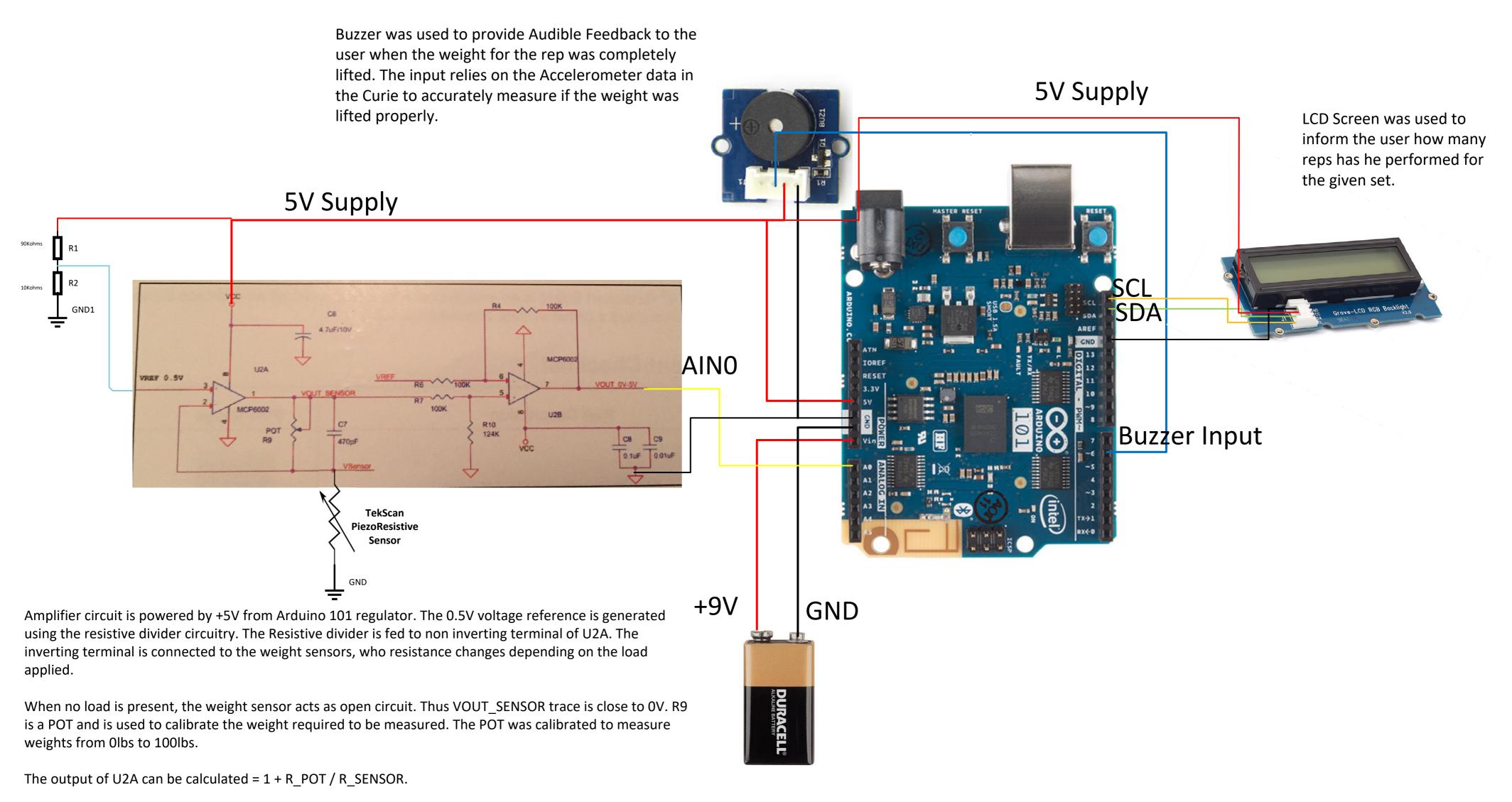
## Wiring Diagram



The second stage of OpAmp, U2B is a differential amplifier. It is designed to subtract the 0.5V DC voltage used in the first stage.

For 5lbs weight, output voltage is 160 mV

For 5lbs weight, output voltage is 160 mV

For 10lbs weight, output voltage is 320 mV

For 20lbs weight, output voltage is 640 mV

Maximum weight measured (3.3V ADC limitation) = 103.13 lbs.

Arduino 101 was powered using the 9V battery. We plan on using a Lithium Ion battery (4.2V nominal), optional battery charger in Curie and Boost Converter to boost the voltage to 5V rail for the final product.