```
feedback connected to analog 1.
pwm pin is on digital 11
Basic controller
void setup(){
  Seri al . begi n(115200);
  pwmSetup();
void loop(){
   int targetVoltage = 100; //type in the voltage you want. Refer to guide on limiting comonents
   //using resistive voltage divider, same R1 and R2 on wikipedia "voltage divider"
   //R1 is connected to high voltage
   //R2 is connected to ground
   double R2 = 200000;
   double R1 = 10000000
   double vol tage = (anal ogRead(A1)/1023.)*4.9*(R2+R1)/R2;
  if(vol tage < targetVol tage){</pre>
     OCR2A = 100;
   if(vol tage > targetVol tage){
    OCR2A = 0
void pwmSetup(){//just run once at setup
   pinMode(3, OUTPUT); //OCR2B 3 and 11 are pwm channels
   pi nMode(11, OUTPUT); //OCR2A
   TCCR2A = _BV(COM2A1) | _BV(COM2B1) | _BV(WGM2O); //phase correct pwm 31250hz
   TCCR2B = _BV(CS20); //change this as datasheet says to mainly get different pwm frequencies
   OCR2A = 0
   OCR2B = 0
```

/* boost converter guide at reibot.org