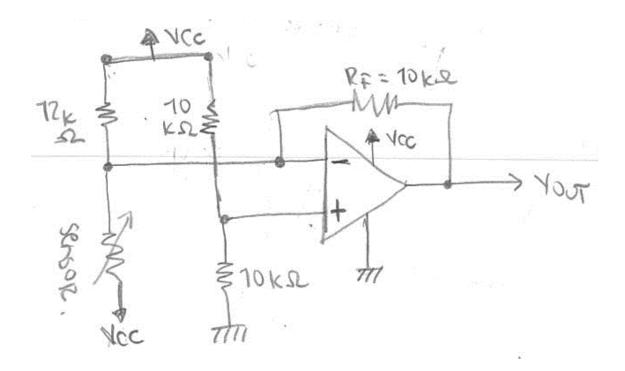
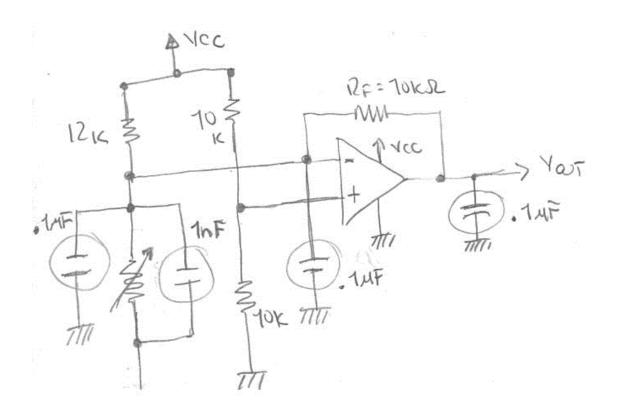
## Flexi Force onto Spidar

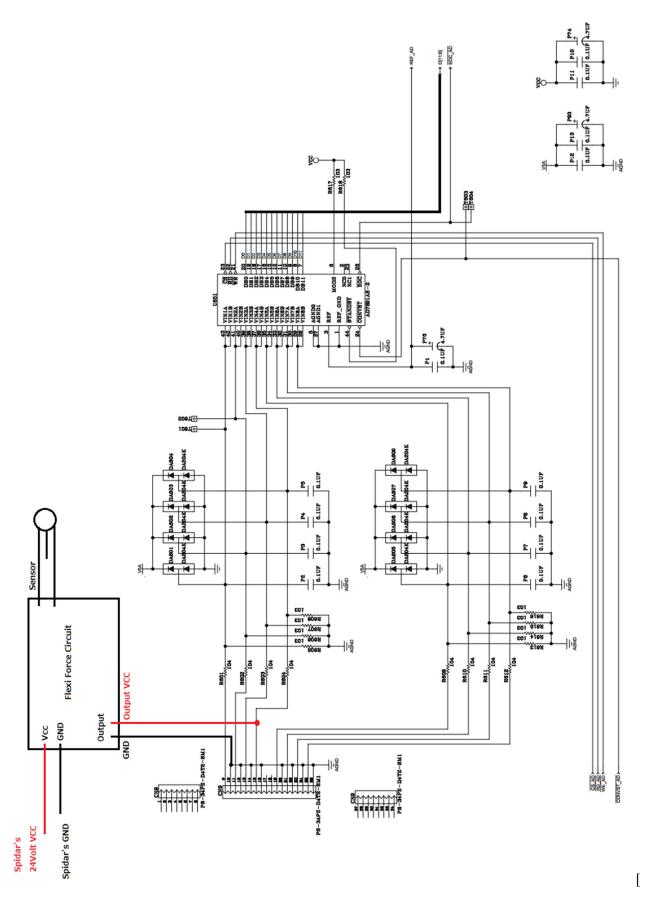
The following flexiforce circuit was adapted to work with 24 V (DC). Because Spidar works with that voltage.



Rf is very important to this circuit. Because, the reference resistance is used to increase the sensor's sensitivity range. (Rf can have values from 1kOhm to 100 kOhm).

The previous circuit doesn't have any capacitors. It will work but the sensor's output will be very noisy. In order to have a cleaner output signal several capacitors were added into strategical places of the circuit.





Then the circuit should be connected with the Spidar's internal AD converter. To do so we should find a free input port in the AD. In the case of the previous figure the FlexiForce circuit output is connected into the 3thd port of the AD converter and also the circuit's output ground should be connected to the AD ground, which is different from the power supply ground.

Also the circuit should take power from the Spidar power supply. (24V DC).

We used 1lb and 25lb FlexiForce sensors.