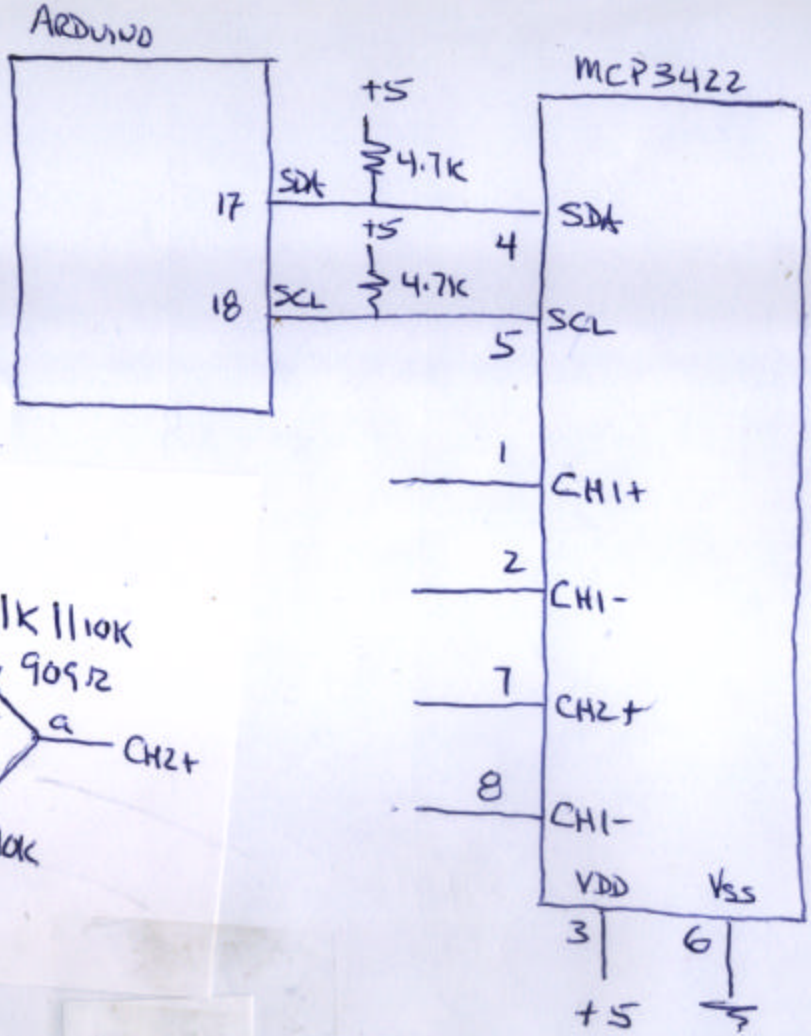
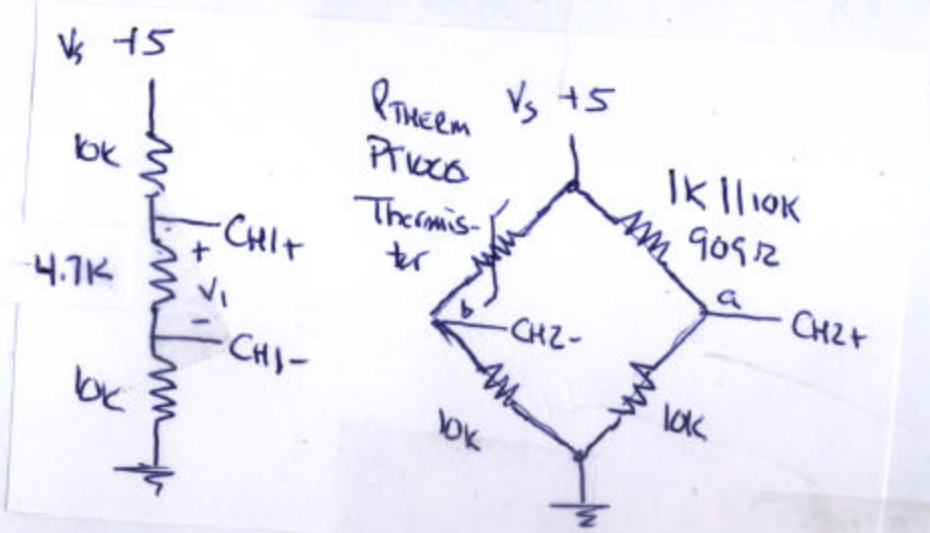
Arduino
MCP3422 Dual A/D





Measure v1. V_S is then calculated as $5.255 * v_1$

Measure V_{ab}

$$R_{Rtherm} = 10K \left(\frac{1}{0.91667 - \frac{V_{ab}}{V_S}} - 1 \right)$$

$$T_C = (R_{Rtherm} - 1000) / 3.84$$

Temperature Measurement using PT1000 RTD

Fig #3

Anderson June '11