Vb

R1
46.4k

R2
24k

BT2
1.2 volts

Vt

Vr

RT1
10Kntc
t°

R3
9.1k

BT1
1.2 volts

Solar Panel

RN4020 ADC 0 and ADC 1 measures voltage Vt and Vr.
Temperature sensed can be caluclated by value of thermistor RT1.

Vr=Vb*R3/(R2+R3) or Vb=Vr*(R2+R3)/R3.
Similarly, Vt=Vb*R1/(R1+Rt).
Use algebra to solve for Rt=Vt*R1/(Vb-Vt)
Unfortunately, Vb varies depending on battery is being charge or discharge.
Rt=R1*R3/((Vr/Vt)*(R2+R3)-R3)

A more acurate temperature based on value of the thermistor
is to use curve fitting rather than using Hart Stein Hart equation