UNIVERSITY OF ALASKA FAIRBANKS

COLLEGE OF ENGINEERING AND MINES

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

COURSE CODE	EE F102 F01 (CRN: 34544)
COURSE NAME	INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING
SEMESTER	SPRING
YEAR	2022
LABORATORY LOCATION	ELIF 331 (ELECTRONICS LAB)
LAB SESSION DATE AND TIME	MONDAY 14 FEB 2022
TYPE OF SUBMISSION	LABORATORY REPORT
NUMBER OF SUBMISSION	4
TITLE OF SUBMISSION	TEMPERATURE SENSOR DESIGN
METHOD OF SUBMISSION	ONLINE TO: maher.albadri@alaska.edu
DUE DATE OF SUBMISSION	MONDAY 21 FEB 2022
DUE TIME OF SUBMISSION	23:59

STUDENT NAME	Jacob Guenther

MAKE THIS FORM A "COVER PAGE" FOR YOUR REPORT SUBMISSION.

FOR THE TA USE ONLY

REMARKS:

1 Objective

2 Equipment

- Arduino Nano
- Resistor
- Thermistor
- LED
- Breadboard
- Jumpers

3 Setup

We use a voltage divider as seen in figure (1).

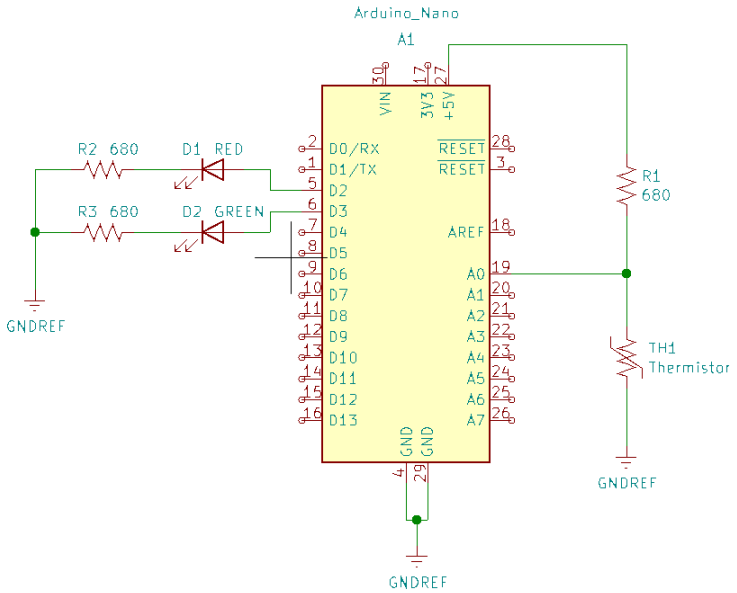

Figure 1: Voltage divider using the thermistor connected to analog input 0.

4 Observations and Results

Figure 2: Code used in this lab. Converts analog value to temperature.

5 Conclusion

6 References

[1] Denise Thorsen, Maher Al-Badri, INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING, University of Alaska Fairbanks, 2022.