

Hardware

The hardware for this project starts with the Arduino Uno and Adafruit Bluefruit LE nRF8001 radio we have used for other projects. Refer to “Wiring Up the Adafruit Bluefruit LE Module” for more information. Wire in the BME280 breakout board sensor based on Figures 6-1 and 6-2.

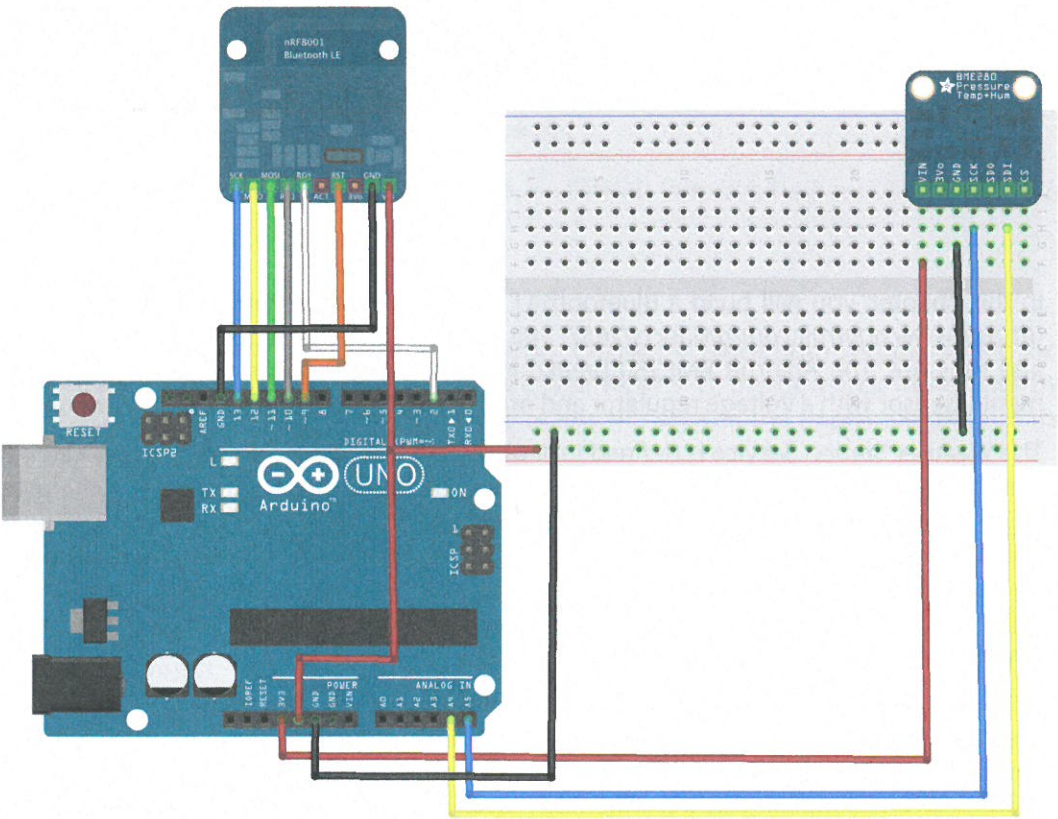


Figure 6-1 Weather station wiring diagram

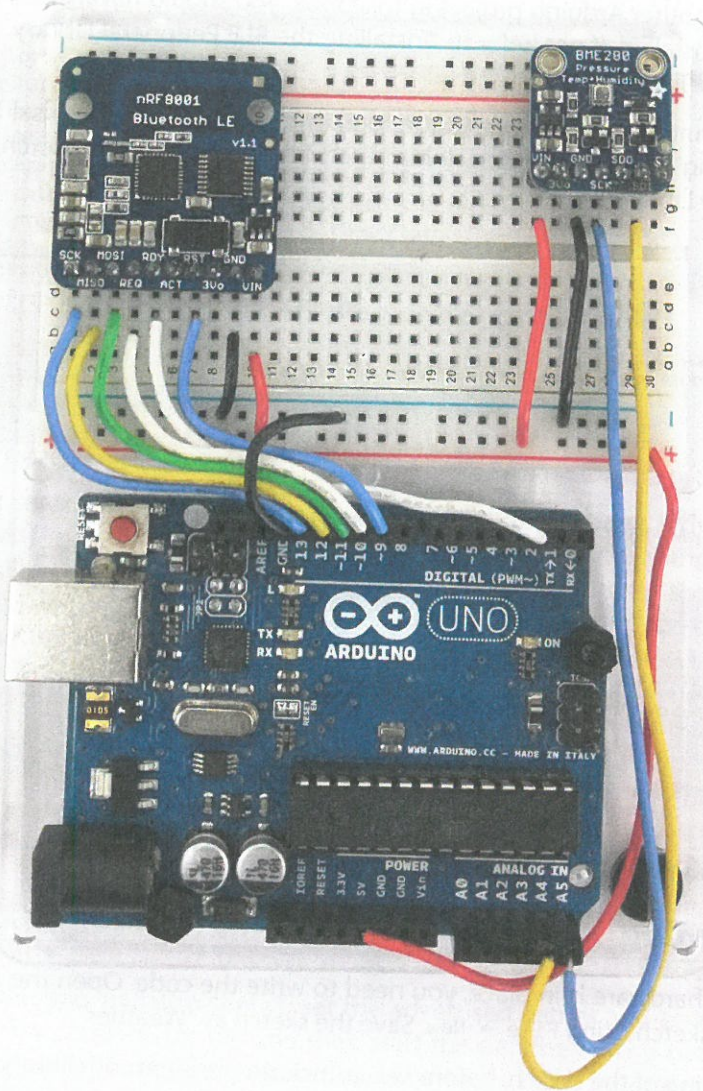


Figure 6-2 Weather station wiring

The BME280 can use SPI or I2C. This project uses I2C. The pin labeled SCK is the I2C clock pin and should be connected to A4 or the SCL pin on the Uno. The pin labeled SDI is a I2C data pin and should be connected to A5 or the SDA pin on the Uno.