Decrement target temperature

Increment target temperature

Turn on when PIR sensor detects motion

Turn on when target temperature is higher than current temp

Detect movement, and signal to turn on climate control

Display current temp, target temp, and humidity

Turn on when target temperature is lower than current temp

Read in temperature and humidity

MB50100 Heating Fan

MB50100 Cooling Fan

1602A Character LCD

Arduino KY-032 Digital PIR Sensor

DHT22 Digital Temp/ Humidity

Arduino/ ATmega 328p Microcontroller

Store values for current/ target temps, determine whether heating or cooling, and determine when to shut off climate control