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ME314

Lab 6

Sensor Data Collection

Chart, box and whisker chart

Description automatically generatedChart

Description automatically generated I collected data using a DHT-22 Humidity and Temperature sensor, thermistor, and photoresistor over a span of 8 hours in the research lab I work in on campus. I used a Raspberry Pi connected to the Arduino Mega which was reading each sensors data every 10 seconds. I wrote a Python script on the Raspberry Pi to read the serial data from the Arduino and to insert and store it into a database. I then utilized Python matplotlib package to graph each sensors collected data over the time.

Chart, line chart

Description automatically generated