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CS-350

7-1 Project

The thermostat supports sensor data input from the on-board temperature sensor managed by the I2C and allows for Freescale target modes (former master and slave modes), the input from the on-board buttons managed by the GPIO allow for the increase and decrease of the set temperature for the thermostat, and the timer allows for a set period that allows for a task scheduler. Since the CC3220 Launchpad is Wi-Fi capable, the system could be modified to upload the sensor reading to the cloud, take remote input from the user to set the temperature, and remotely update the status of the heating system. The launchpad has a flash memory of 1024KB and 256KB of RAM, which is more than enough to support this current project with almost no boot time or lag.