Champlain Regional College at Lennoxville

Computer Science Technology Program

Internet of Things 2 - 420-520-LE

Mid-term Project description

Project Name: PhilatHome

Group members: Tom Gaillard and Sacha Paquette

Description:

PhilatHome is a Raspberry PI based solution that tracks whenever you enter your house with the ultrasonic distance sensor and sends to your phone a sms that contains all the information that are useful to you like the temperature of your house using the temperature sensor, if the lights are on in your house using the photo resistance sensor and it can track how much time the lights have been on at your house, after 48h, a notification will be sent to your phone telling you that your lights have been on for a long time. It can also track how much time your lights have been on in your room, sending you a notification if you have been in your room for too long, it will also send you a notification once a week, telling you how much time you have spent in your room. Whenever your house lights are turned off, a LED will be on to help you find your light switch. With PhilatHome, we want you to do the less effort possible to enjoy your life and with the addition of a temperature display using a seven-segment display, you will be able to see the temperature even if you don’t have your phone with you. It is really simple to setup PhilatHome, you will only need to setup your WI-FI connection to the Raspberry Pi and we will setup your phone number to be able to receive the sms, so no need to do further efforts. With the light sensor, we can track how much time your lights have been on in a specific room and estimate the price in electricity that you will have to pay for this month. The price estimate will be based off a light bulb of 10.5V.