

Internet of Things

Challenge 3 - REPORT

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TINYOS

In `hc3C.nc` I wrote all the logic meanwhile in `hc3AppC` I wrote all the components and wired the interfaces.

I used a timer of 1 minute to send the new messages to cooja and node-red.

Then I used the method `Time.fired()` to make the ternary conversion and toggle the right led.

With the `printf` I could easily inform node-red of the status of the leds, and I used boolean variables to keep track if a led was turned on or off.

Finally after the conversion was over I stopped the timer using `Timer.stop()`.

NODE-RED

I used the TCP node to create a connection with cooja at the port 60001.

Then I used the node Toggle leds, the function selected the led that was toggled and sent the information with the node Mqtt publisher to the ThingSpeak channel.

THINGSPEAK: <https://thingspeak.com/channels/1724975>