

SIT315 Programming Paradigms

Module1 Real-time and Embedded Systems

TaskM1.5HD: RIOT Board

Overview of the task

To fulfill the requirements of this task, you will need to check RIOT OS examples for Arduino, run the example given in the examples folder on your Arduino and then do one of these extensions:

- Get one of your Sketch files from the previous programs, OR
- Write the program in C/C++ from scratch to implement one of the programs you have developed in this module.

Submission Details

Please make sure to provide the following:

- A video of your board running, and
- The source code of your new program.

Instructions

1. Download RIOT OS if you do not have it: <https://riot-os.org/api/index.html#the-quickest-start>, <https://riot-os.org/api/creating-an-application.html>, https://riot-os.org/api/group__sys__arduino.html
2. Check the examples folder for arduino, and try to compile it using 'BOARD=arduino-uno make all flash'
3. Implement your program (save the file as Task1.5HD) in the Module1 folder, upload it on Arduino and test it.
4. Submit your task as detailed on the submission details section above to OnTrack.