

## Assignment 2: Hello BeagleBone

For this assignment you will need a BeagleBone Black, a Robotics Cape, and a host-computer. Please create a single PDF document containing the answers to all questions in this assignment. Also include your source code on the last page. For this assignment you will submit a single PDF file to [submissions@renaissance-press.com](mailto:submissions@renaissance-press.com) instead of just your source code.

You may work together with a partner and may even share a BeagleBone. However, all source code, answers, and figures must be your own. Copying is another's work is a violation of the academic honesty policy.

### Setup

Still working on this bit

<http://beagleboard.org/getting-started>

<http://strawsondesign.com/#!manual-install>

### Making Your First Program (10 pts)

Make a copy of the project template in the /root/ directory, read the README file inside, and rename it to my\_blink. Here you will write your own version of the 'blink' example with your own twist. It must meet the following requirements:

- The pause button must toggle the program state between RUNNING and PAUSED.
- The mode button must change what your program does in some way.
- Both green and red LEDs must do something differently depending on the mode.
- It must print something to the console while in the main while loop.
- It must exit the main while loop when ctrl-c is pressed
- It must sleep at some point in the while loop.
- It must print "Goodbye Cruel World" to the console after the main loop exits and before main() returns.

As long as these requirements are met and you submit a PDF with the source code and a screenshot of the console output, you will receive all 10 points. You may have

fun blinking lights and making this fancy but I would rather you love onto the next assignment instead.