



EMBEDDED SYSTEMS

Assignment 4

OLED CHARACTER



- Wire the 128x64 OLED graphic display to your MBED LCP1768 on the provided breadboard.
- Write your own API supporting:
 - `putc`: print one character to the screen, wrapping to the next line if you've reached the end of the current line and back to the top of the screen if you're at the end of the last line.
 - `clear`: clear all content from the screen
 - `printf`: print a formatted string to the screen using your `putc` function. The function should take a variable argument list. You may use the provided MBED `printf` function as an example.
 - Demonstrate a test program (by video) that shows printing 500 words of a book to the screen outputting a newline every second (1 Hz).
 - Commit your code to the team repository under `assignment4-character` branch.
 - *Libraries exist for other platforms. You may use that code as reference.*
 - *Example font metric files can be found on TED.*

- Write a program that displays an animated radar screen similar to what is shown in this animated image:

<http://www.modejong.com/blog/Media/RadarLoop.gif>

- Demonstrate with a short video.
- Commit the program to your team repository under assignment4-graphic branch.