Electronics II Exercise 6

Deadline Thu 8.3.2018 12:00

- 1. Make your favourite poem scroll on the LCD. Backlight the screen and make the contrast adjustable with a potentiometer. (2p)
- 2. Set the RTC to the correct time and display the time and date on the LCD. (2p)
- 3. Mod your code from the previous problem so that the microcontroller is in power-down mode and it updates the time only when a button is pressed. Estimate roughly how much is the average current consumption. How long would a 1000mAh battery last with and without the power-down mode? Consider only the current consumption of the microcontroller. (2p) Feel free to optimize the power consumtion of the whole system.