

Due: Tuesday, Feb 9 (Nothing to hand in, but you should have a good idea of what the ATmega328 can do)

1. The reading assignment for the next lecture is from the ATmega328 datasheet and the AVR Instruction Set Reference, which are linked from the HW Web page.

ATmega328 datasheet: Skim through page 7, and then read pages 8 – 13 which describes the ATmega328 processor architecture, pages 16 – 20 on the memory architecture, pages 75 – 79, 92 – 93 on I/O pins.

AVR Instruction Set Reference: Read pages 1 – 14, which cover the memory access modes and a summary of the instruction set.

We will be going over a lot of this material rather quickly in lecture. If you have not done the reading, you may get lost.

2. If you have not completed the 2D Wavelet simulation, Lab 6 will be your last chance to demo your simulation and working design in the FPGA.

3. Please come to Lab next week with your Arduino boards ready to go. You will be writing your first program and installing your first hardware (tri-color LED) using the protoboard. You may want to download the Arduino IDE onto your own computer since you will want to do most of your development at home.