Some tips for using DE2-115 FPGA

1.Download material: if you want to download Quartus ii in your own computer, go to webpage <http://fpgasoftware.intel.com/13.1/?edition=web&platform=windows>.

Intel provides free edition which is web edition and the device should be Cyclone IV for our final project. Then follow the install instruction so you can run Quartus ii in your computer.

2. Please follow the steps from PDF “tut\_quartus\_intro\_verilog” and run the example “light” to make sure your FPGA works well.

3. For those who can not find USB blaster in your own computer, please follow these steps:

1. Connect board to the PC.

2. Open Device Manager and find usb driver menu.

3. Delete usb blaster driver if it already exists.

4. Go to page

<https://www.terasic.com.tw/cgi-bin/page/archive.pl?Language=English&CategoryNo=163&No=502&PartNo=4> and download Cd-rom which includes usb blaster driver.

4. I also attached Pin assignment Excel in this email, remember to compile again after assigning the pins.

5. our device is EP4CE115F29C7, remember to double check the name of the device when you start a new project in Quartus ii.

6. Use JTAG mode and load .sof file into FPGA board.