

ESHD, Assignment 1

1. Please submit some information about yourself into Discussions → Introduction section of the course page: what education you obtained, occupation or what kind of work you do, what country (state) you live in, and what you expect to get from this course.

Your photo and a list of your hobbies will be appreciated.

1 point

2. Download the attached to Lesson 1 documents;

read the recommended book pages 1-27 at: <https://books.google.com/books?id=6738mXhY4igC&lpg=PP1&dq=Embedded%20Microprocessor%20Systems%3A%20Real%20World%20Design&hl=is&pg=PR4#v=onepage&q&f=false>

3. Go to ST web site and order B-L475E-IOT01A kit. Download Data Sheet, User Manual, and other documents for this kit.

4. Go to <https://www.adafruit.com/product/1897> and order SPI Non-Volatile FRAM Breakout – 8kB kit. Download schematic, code (Adafruit_FRAM_SPI.cpp and --”--.h), Datasheet, Pinout, Assembly, etc.

5. Order seven jumper wires 10 – 15cm, male - female on Internet. If you have a breadboard, you can use male - male jumpers.

6. Read about ESD protection and send me a plan of your actions for working with our development kit and other electronic devices (PCBAs, Sensors, Components).

2 points

7. Find two or three embedded systems in the gramophone (not electrical) and describe what they do.

2 points