

1. Overall Description

- ➤ "Eaton Cup" ECE 385 FPGA Platform Digital Design Competition is going to be organized
- ➤ In each lab room, based on final project design of each group, professors and teaching assistants will jointly select **One Best Design Award** and **Three Excellent Design Awards**.
- > Awards will be given on the day of the final demo.







2. How to participant

On site demo:

- ➤ During the Final Project Demo, two reviewer (TAs or professors will give scores, and the final score will be averaged (accounting for 70% of the total score).
- ➤ Contents that need to be assessed during the on-site demonstration include:
 - Difficulty (33%, 10 points)
 - ➤ Completion and effect (33%, 10 points)
 - Familiarity with the work and the effect of the introduction of the work (33%, 10 points)

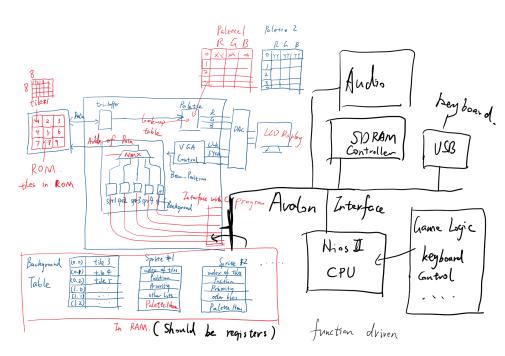
2. How to participant

Design report:



Teams participating in the competition must submit a design abstract two days in advance of final demo day (accounting for 30% of the total score, the report is less than 5 pages), which includes:

- **1. Detailed Block Diagram:** Content need to include: use of IP on Avalon Bus, allocation of addresses, function description of each IP
- 2. The implementation and interface definition of the three main Modules. They can be the most complex ones in the design, or the modules with distinctive features (including but not limited to storage units, Frame Buffers, Sprites, display units, sound units, etc.)
- 3. The implementation process of the C algorithm (if any), specifically including: the execution cycle of the program, and the data synchronization mechanism of the hardware (which registers are used for synchronization)



Award details



- Each room has one Best Design Award and three Excellent Design Awards.
- The best design award is worth 1,000 CNY, and the excellent design award is worth 300 CNY.
- The prizes include: Eaton Logo prizes plus electronic equipment

- New modification:
 - Everyone are in 2nd floors lab
 - Still three groups (3*4=12 awards)
 - Students can vote for your winners
 - Highest vote+high TA scores = best design
- May 22nd: you must submit the simplified design report (5 pages)