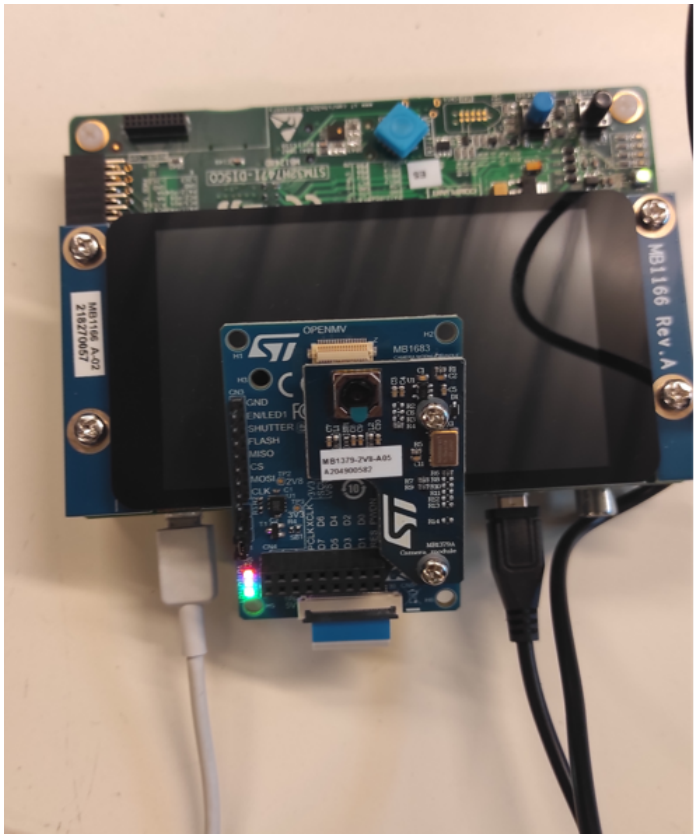
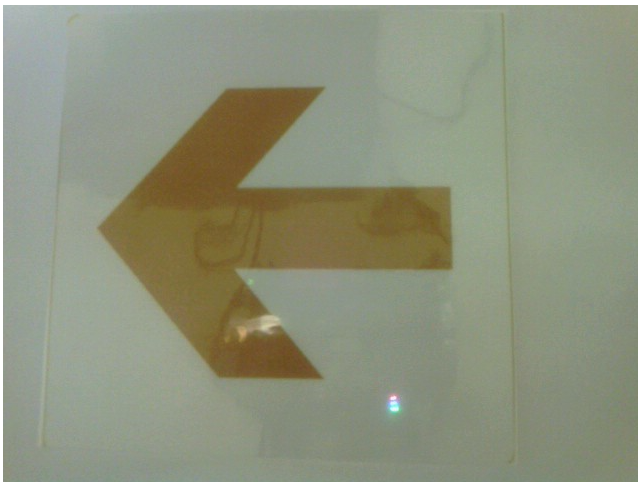
19/11 session EL AISSAOUI Yassine

After we had our meeting last week with STMicroelectronics's engineer, we got some information that we didn't knew back then, those that helped us recognize our next steps. So in this session we connected the embedded card DISCO with the camera that came with it, and load the program "STM32H747I-DISCO_Webcam-V300.bin" on it (the file is in the following direction FP-AI-VISION_V3.0.0\Projects\STM32H747I-DISCO\Applications\USB_Webcam\Binary) . By loading the file it makes the camera connect with our computer (Using this tutorial https://www.youtube.com/watch?v=NDshmSH7WnA) so we can easily get what the camera sees in our computer using the camera application coming with windows. After this we took pictures of the 4 symbols of directions in different angle and position.



Example of a picture taken by the connected camera:



The next step is to create the model training using all those pictures that compressed in a zip file. In order to do that we had to make a code that's capable of doing it, but since we already have one in FP-AI-VISION that do the food detection (FoodDetection.ipynb) we tried to understand this code in order to manipulate it for our purpose (direction detection).