Hendrikse Jérémy

Session report 17

Before the session:

With the new power setup done I went on testing the components. I didn't test the two I2C module I have until now, the OLED screen and TOF (time of flight) distance sensor. I tried using them with an example code I already had. Nothing worked. After checking I found out there was a bad contact in PCB I welded causing the I2C bus to not work properly. I tried using this module on a separated card to make sure they weren't broken.

I tried welding it properly, but it was really hard. I stopped to do something else.

I recently received a QR code reader from our dear Mr Masson, sadly there was no documentation with it and no documentation on the internet. The problem was the layout of the wires coming out the module. I found a similar module on the internet and tried its layout. Didn't work in the beginning, switched two cables and it powered on. I first tried a code found on the internet, but it did nothing. Because I was using a Serial communication, I actually just could read the Serial bus using MySerial to be able to print the outputs on my computer. It worked and I could read the QR code. I am still not sure if this module will be useful because we don't know how far way the code is and where it is.

The best way would be a stereo camera.

During the session:

I asked our teacher for a stereo camera and started looking on the internet on how to make it work. Most codes I found where using OpenCV. First, I tried getting the camera output, then I started trying to calibrate the camera. It is necessary to calibrate the camera because there is a lot of distortion that makes impossible to create a depth map.

I had a lot of trouble, understandable errors, doubts about the code structure....