Report

SESSION 2 *(19/12/22)*

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I made the code of the stepper motors. I thought that to make the code more readable and easy to use it would be better to use a class for the motors especially since we have to control two of them. So I wrote this class. The code is too long to be fully rendered here so it is accessible in the ***archive/session2/main*** folder on GitHub.

One of the most important things to take into account in the code is the fact that we could not use delays. Indeed, to produce the desired effect, the motors must be able to run simultaneously, with a delay we would stop the program completely when one motor is running while the other is not, which we don't want.

To solve this problem, I had the idea to use time varibles and the millis function. So, each engine object has its own time variables like the last time we updated its position or the next time we will update it. So we can get rid of the delay and update the engines only when a certain time has passed.

I realized too late that the "dir" input of one of the drivers doesn't work, which I will change at the next session.

I finally started to create some functions to move the motors which should for example draw a line on the wall but I haven't finished yet.

Benjamin Choiselat