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Name: Haofu Zhu

I tested my program to control the stepper with IMU’s magnetometer today. The IMU can control the stepper successfully. But still the IMU will be seriously influenced by other magnetic field. After some discussion with Jinlun, we came up with an idea that we can save the degree every time when the stepper is turned off and revolve the stepper back to “zero” point next time when it start. It is a good idea but things is the user have to put the “zero” point towards north every time before using which is very inconvenient. I will try to think of another solution.