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I figured out an idea to solve the problem of stepper setting. To initiate the stepper on the camera side, we can put an IMU on the camera to control the stepper. By using IMU, we can revolve the stepper to face north every time before using. However, Daniel told me that the IMU is quite unreliable because it will be influenced by other magnetic field. I am now doing some research on some available algorithm to improve the precision of IMU.