# Potential Disturbances and how the design should compensate

Each of these disturbances will cause at least one LED to turn on. Multiple/distinct LEDs may be turned on according to the type of the error or the type of measure taken for the error.

Alternatively, we can just use some sort of display and let it type out what type of error has occurred.

# Internal Disturbances

## Runtime (System) Error

Halt the procedure and save the log.

## Obstruction (Motor Timeout Error)

Halt and wait until the obstruction is removed (and perhaps continue the procedure afterwards).

# External Disturbances

## Missing disk

Halt the procedure.

## Grabbed disk no longer recognized by the short-range sensor of the grip

Can be detected using the short-range sensor of the grip. Halt the procedure.

## Disk grabbing failure

Can be detected using the short-range sensor of the grip. Re-calculate the disk’s position using the camera and try grabbing the disk again. Halt if the maximum number of attempts is exceeded.

## Unrecognized disk (or object)

Halt the procedure.