

Part 1:

- Record a video of your robot playing back the waypoints in part 1.2
 - <https://drive.google.com/file/d/1pHw4mqLWsyWeWu1zZbtjCbDmdUgiqNGd/view?usp=sharing>

PART 2:

- Demonstrate the teach-and-repeat in a video by recording the process of teaching the robot and repeating at least once the cycle task in section 1.3
 - <https://drive.google.com/file/d/11XEmz8h0ihwzd9r2qOpddf2U-JtotodH/view?usp=sharing>
 - <https://drive.google.com/file/d/1ZZD5GVJCTk4ly9EqEBnJHI02JOO3lkeE/view?usp=sharing>

Part 3:

- Please write down your factory and final calibrated camera intrinsic matrices (checkerboard)!

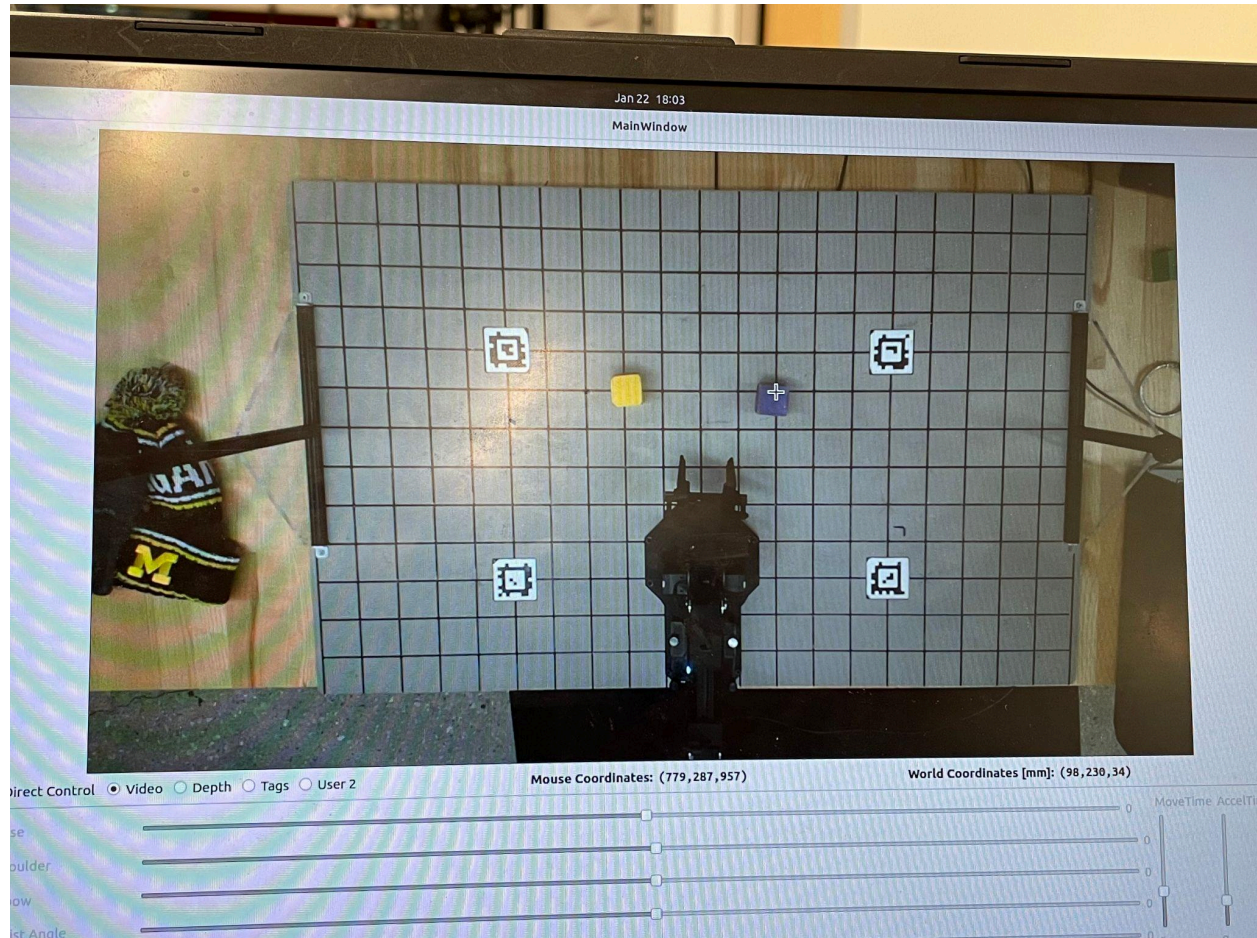
- **Factory calibrated matrix**

896.86	0	660.52
0	897.203	381.419
0	0	1

- **Checkerboard calibration matrix**

982.1515798	0	655.976274
0	990.1094038	383.828218
0	0	1

- Record a screenshot or video of the GUI reporting world coordinates of the mouse cursor when hovering over the image using the intrinsic and extrinsic calibrations.



- Record the reported position (x,y,z) of the center of the top of a stack of large blocks placed at the following locations for a stack size of [0,1,2,4,6] blocks (total of 20 measurements):
 - (0,175), (-300, -75), (300, -75), (300, 325)

World Coordinates (actual)	World Coordinates (Reported)	Stack Size
(0,175)	(1,177,0)	0
(0,175)	(2,182,36)	1
(0,175)	(0,186,74)	2
(0,175)	(-2,190,149)	4
(0,175)	(-2,190,225)	6
(-300,-75)	(-300,-80,-1)	0
(-300,-75)	(-301,-80,34)	1

group_9_AM_checkpoint_1

(-300,-75)	(-303,-79,73)	2
(-300,-75)	(-302,-79,149)	4
(-300,-75)	(-303,-76,225)	6
(300,-75)	(313,-77,4)	0
(300,-75)	(312,-82,38)	1
(300,-75)	(314,-80,76)	2
(300,-75)	(316,-76,153)	4
(300,-75)	(314,-76,229)	6
(300,325)	(308,334,0)	0
(300,325)	(308,339,36)	1
(300,325)	(312,339,72)	2
(300,325)	(311,341,150)	4
(300,325)	(314,339,227)	6