

# RobotControlAndData

Monday, February 27, 2023 10:51 AM

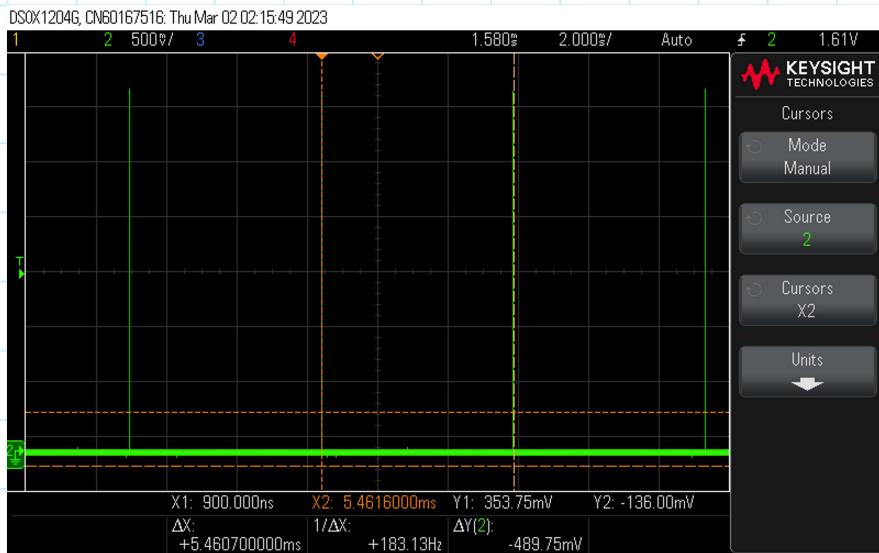
## Part A

The purpose of each column is to keep up with how many ticks were counted, the speed from the code for each motors, the actual speed of the motors, the sum of the motors and the error speed difference

## Part B

refer to excel sheet

## Part C



$$1 \text{ tick} = 5.46 \text{ ms}$$

## Part D)

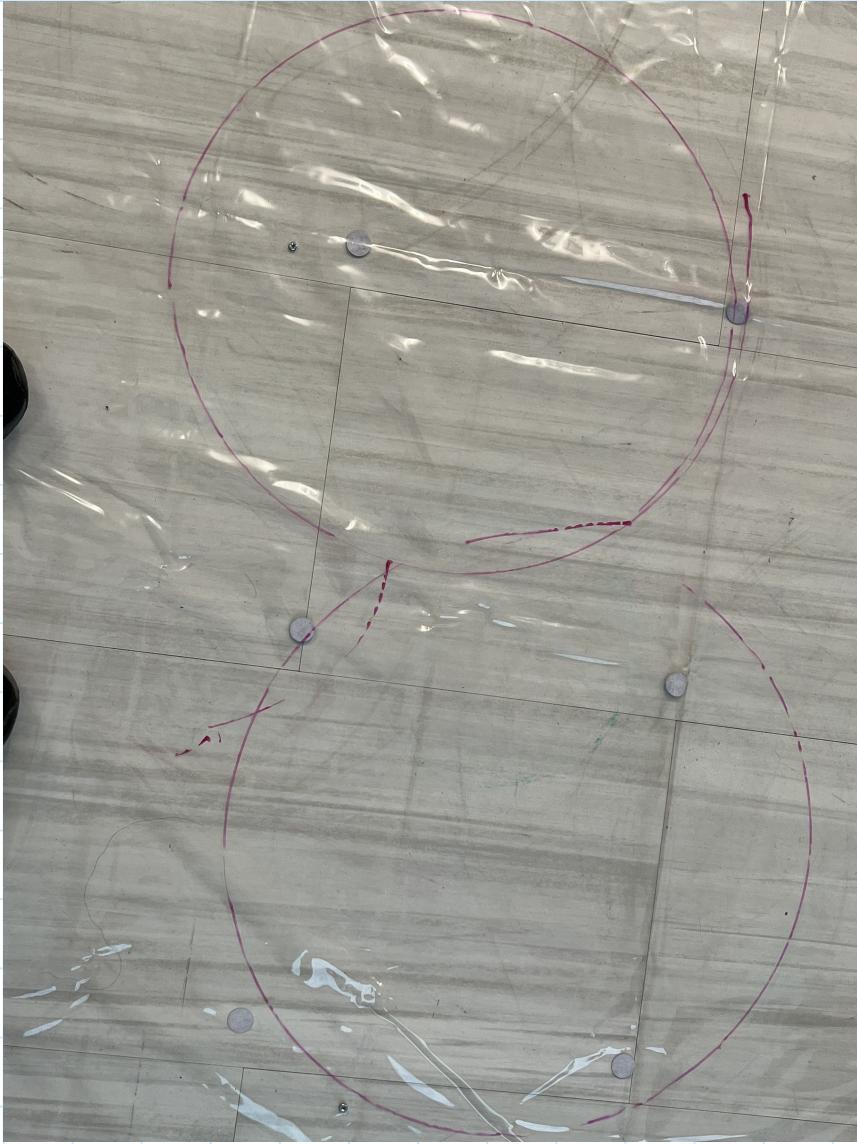
$$903(10)(0.00546) = 49.3 \text{ s}$$

## Part E and F

Refer to Excel

## Part G

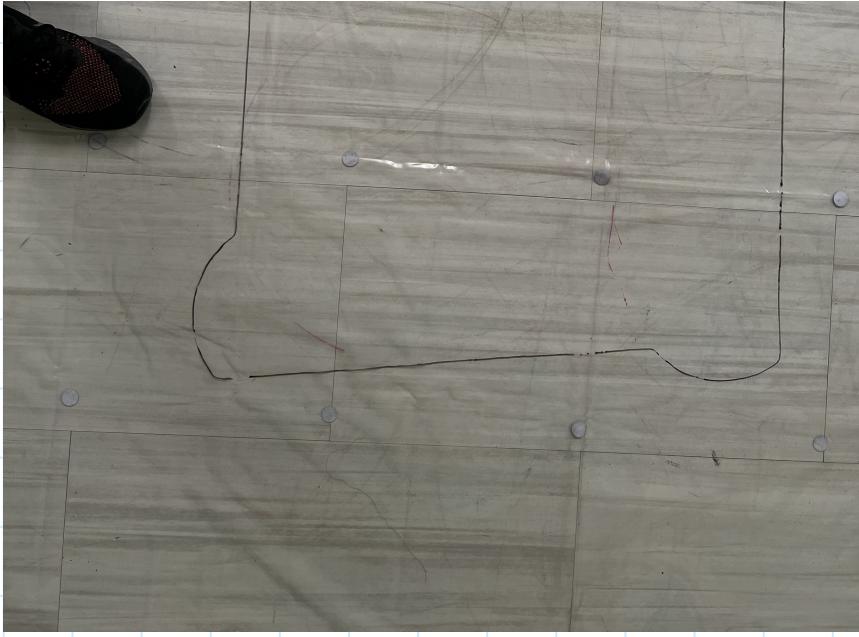




Diameter was around 45 cm

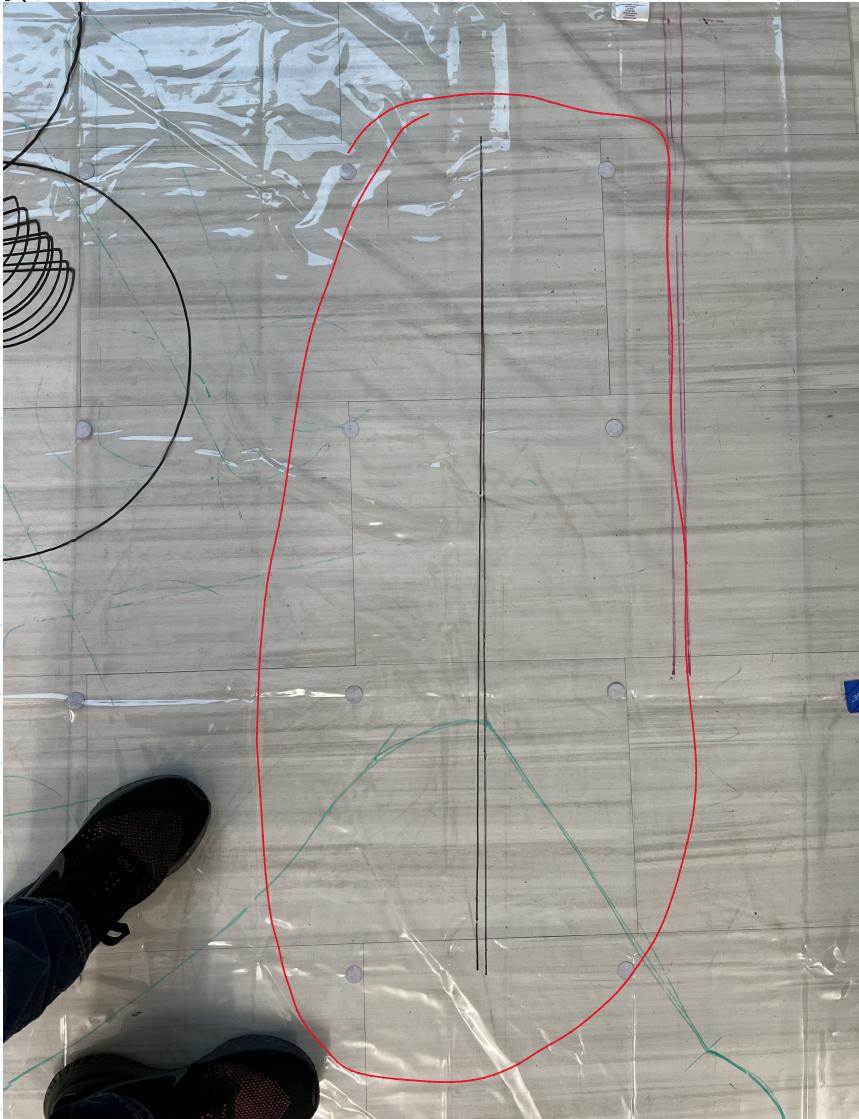
Part H





It was pretty close off by 5cm from starting pt.

Part J





Off by 1cm from starting pt

### Part K

We got away as the board changes the direction based off if the DIRR or DIRL is on or off and since P5.4 is connected to DIRL and P5.5 to DIRR