PROGRESS REPORT 7

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Subsystem: Coding

Date of Submission: 24/01/2021

Reporting Progress from: 18/01/2021 => 24/01/2021

Progress

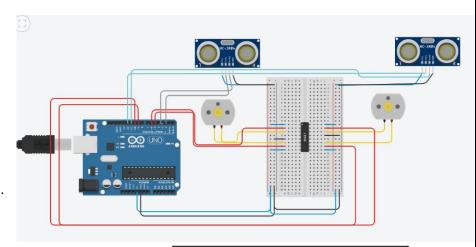
C++ &PROGRAMMING

1)Read up on Structures and its uses to simplify programs.

2)Used Structures along with Pointers and solved a few programming questions

MEETINGS & RESEARCH

- 1)Wrote a CPP Program for the holonomic drive function and uploaded it on GitHub.
- 2)Simulated Two Motors in TinkerCAD and used the differential drive concept to make it do user defined commands such as-Forward, Backward, Left Turn, Right Turn, Left Rotation & Right Rotation.
- 3) Discussed about Line Sensor Arrays and its use to follow a black or white line.
- 4) Made a program for my bot which would avoid obstacles and move and rotate, waiting for the components and then will make it work.



A Screenshot of the working of Aligning Bot and Moving from TinkerCAD.

- 5)Simulated a task for moving a two wheeled bot using 2 UltraSonic Sensors which does the following things:
 - ❖ Move until it is at a distance of 20 cm from wall
 - Rotate the bot until it is aligned to the wall, which means that until both sensors show the same distance reading.
 - Use the above two functions to first align the bot and move till 20 cm of distance.

Simulated the above task in TinkerCAD and uploaded it on GitHub.

7) Reading up about which batteries to use for using motors and motor driver.