

Work Report Summary

Date Assigned: 8th April, 2019

Date Submitted: 13th April, 2019

Name: T. Sanketh Chandra

Subsystem: Coding

WRO 2019 Progress:

➤ Bot Navigation:

- Completed code for bot to navigate in the arena avoiding the obstacles and reaching the coordinates provided by the openmv cam.

https://github.com/RoboManipal-9-0/Coding-FirstYears/blob/Sanketh/sanketh_rm/Navigation./Nav-for%20final%20US%20mounting/Nav.ino

ROS (Issue #1):

<https://github.com/RoboManipal-9-0/Coding-FirstYears/issues/1>

- Installed ROS and have gone through topics, nodes, msgs and few tutorials.

Issues Faced

Navigation:

- Avoiding obstacles and also navigating was troublesome by using same function. But used general function for obstacle in any direction.
- By using encoders and ultrasonic sensors we can know the direction in which the obstacle is present and can move the bot by distance and can avoid the obstacle.