

Group Name: Major Project Group 3

Agenda

1. Setup the presentation and readme

Meeting on 30/5/2021, 13:00

Location: Discord/Messenger

Duration: 2 hour

Attendees:

James Hanna	Rishabh Leelchand	Harry Jia	Devansh Shah

Updates from past meeting:

The serialisation module has been finished and converts the 8x8 array of distance values into a proper string format that can send the data through the serial port. The Lidar servos have also been calibrated so that when it is 90 degrees it is dead set 90 degrees and is staring pretty much perfectly straight. The minutes have also been basically completed.

Minutes

1. The Serialisation module converts the numbers into a format like this:
 - a. 1|2|3||4|5|6||7|8|9|||
 - b. Each number is a distance
 - c. The | is a separator for individual numbers
 - d. A double || indicates a new row
 - e. A triple ||| indicates end of matrix transmission
 - f. This format ensures that any arbitrary size can be transmitted in the future
 - g. So 8x8 is not a definitive size, and can be expanded for any size
2. We are now focusing on the integration of the serialisation code
 - a. The serialisation module has been incorporated into the scanRoom module
 - b. This is where the Lidar sensor initiates the laser and calculates the distance of the immediate object in its vicinity
 - c. The module will take in data and add it into an 8x8 matrix and then will convert that data into a appropriate format
 - d. It will then activate the serial channel
 - e. Then it will send it data as a buffer over the serial channel
3. A loop has also been implemented for the Lidar sensor in which the sensor will continuously take 8x8 matrix readings
4. There was some rogue serial output in the checkorientation module
 - a. The rogue serial output was deleted

Action Items

Action	Person to do	Deadline
Finish up the Readme and the	James	End of the day
Finish writing the minutes and also gyro module tests	Rishabh	End of the day
Write up the serial test modules and work on the testing part of the presentation file	Devansh	End of the day
Finish up the serialisation and image module, and work on the module description part of the presentation file	Harry	End of the day