

## Group Name: Major Project Group 3

### Agenda

1. Integrating Gyro and Lidar servo

### Meeting on 28/5/2021, 15:00

Location: Discord/Messenger

Duration: 2 hours

### Attendees:

James Hanna	Rishabh Leelchand	Harry Jia	Devansh Shah

### Updates from past meeting:

The timer issue of the servo seemed to be fixed by just using the delay that was created with assembly code. Also the gyroscope seems to be fully integrated, however, it now needs to be tested. There seemed to be some issues regarding the timer register not enabling properly but that was fixed by setting the breakpoint while testing after setting the timer register.

### Minutes

1. When testing the gyroscope module, the Lidar servos didn't seem to respond to changes in tilt and motion
  - a. This was fixed by fixing some compilation errors as there was some linking error with the integration of the gyro module and the Lidar servo module
2. However, when testing it, it seemed to lock up to 90 degrees with every movement
  - a. This was an oversight, on which the gyro module was set to be gyroscopic around the 90 degree angle
  - b. Again fixed by passing the current angle to the gyroscopic module function
3. It works but it does not work very well
  - a. It does pause whenever the PTU is not in position so the gyro module can be used to stop the sensor readings if the device is not stable
4. The gyro module was changed to serve this new purpose and it seems to be working well enough
5. Now all that's left is the Serialization module and Image module integration

### Action Items

Action	Person to do	Deadline
Work on integration of the Serialization and Image module	James	By next meeting
Work on writing the minutes and also gyro module tests	Rishabh	By next meeting

Finish up the Serialization module and write tests	Devansh	By next meeting