

# Team Project

## - Off Road Racing -



# Our Goal

- Race on a track as fast as you can

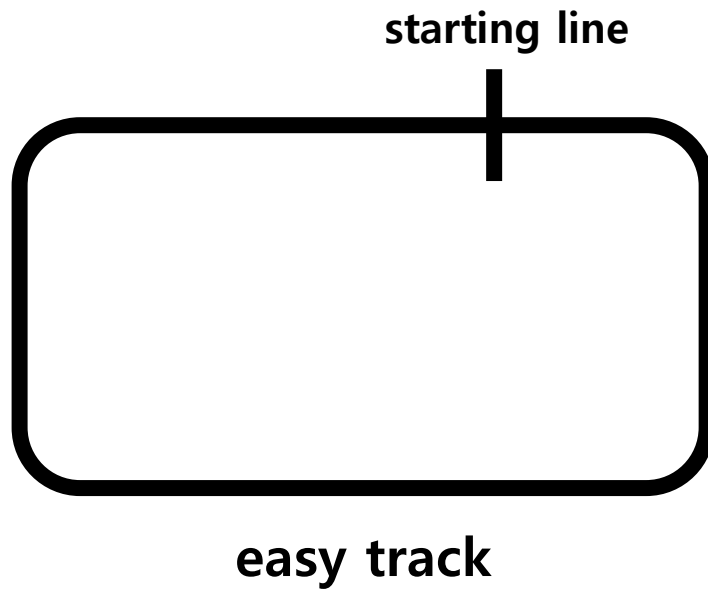


# Our Goal

- Race on a track as fast as you can

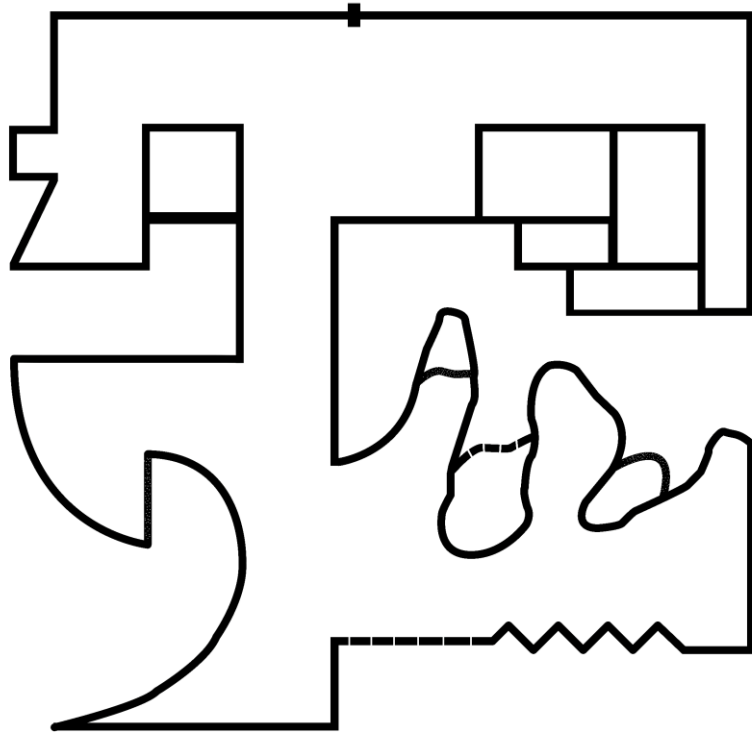


## Challenge 1 - Easy Track



- 1 Lap
- Pass or Fail

## Challenge 2 - Main Track



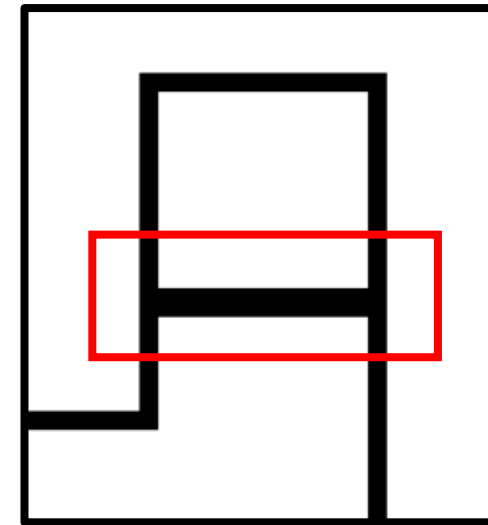
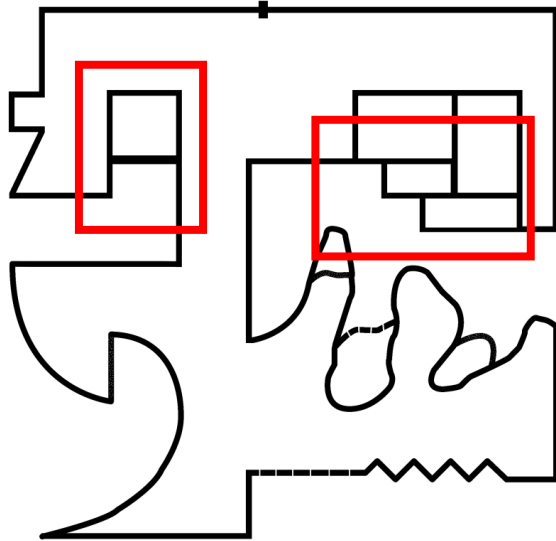
main track

- 2 Lap
- Scored by 2 Lap Time
- Noise on The Road

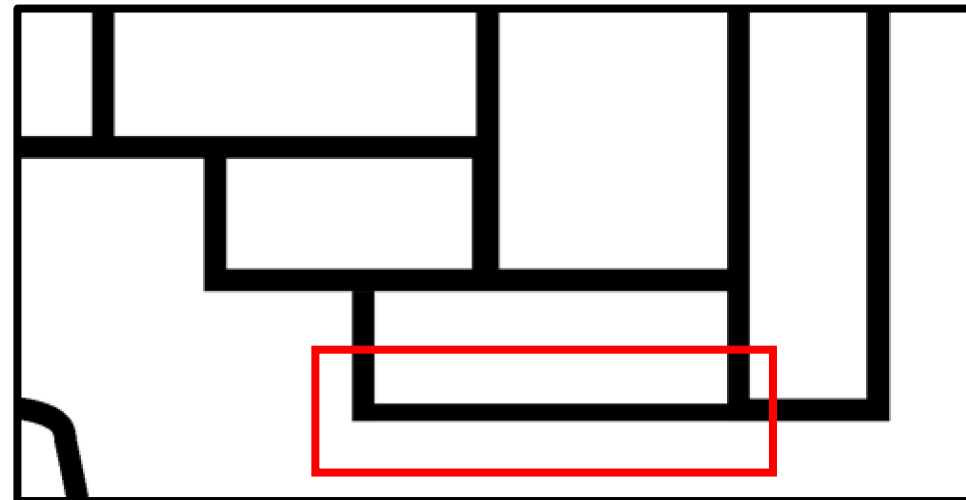
# Main Track Specification – Road

## Road Size

- 19mm (2 sensor, default)
- 15mm ~ 30mm



wide  
road

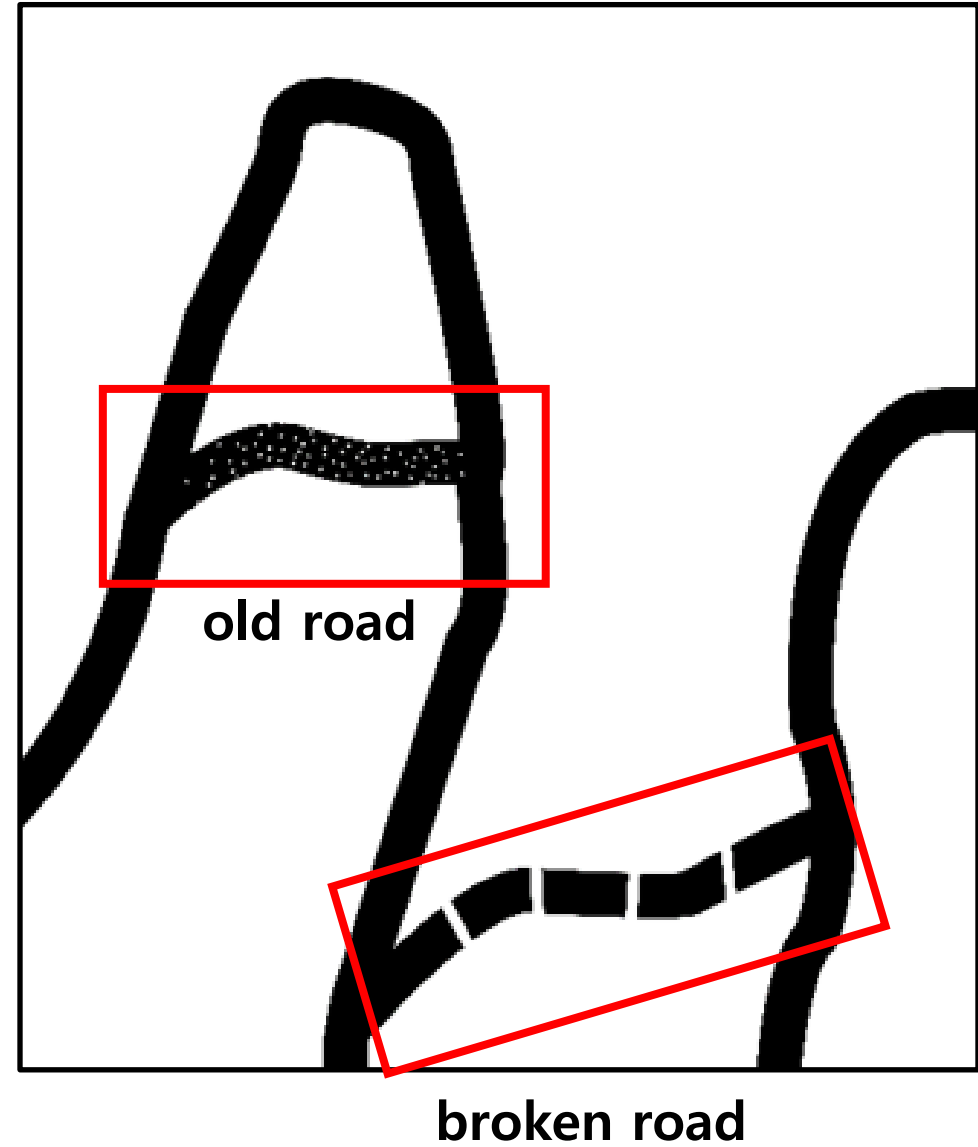
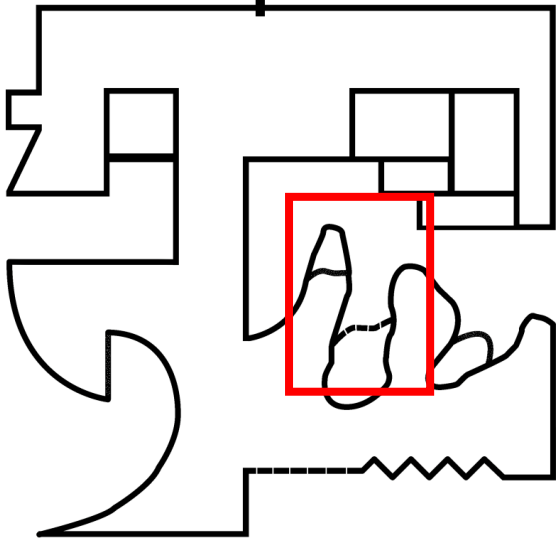


narrow  
road

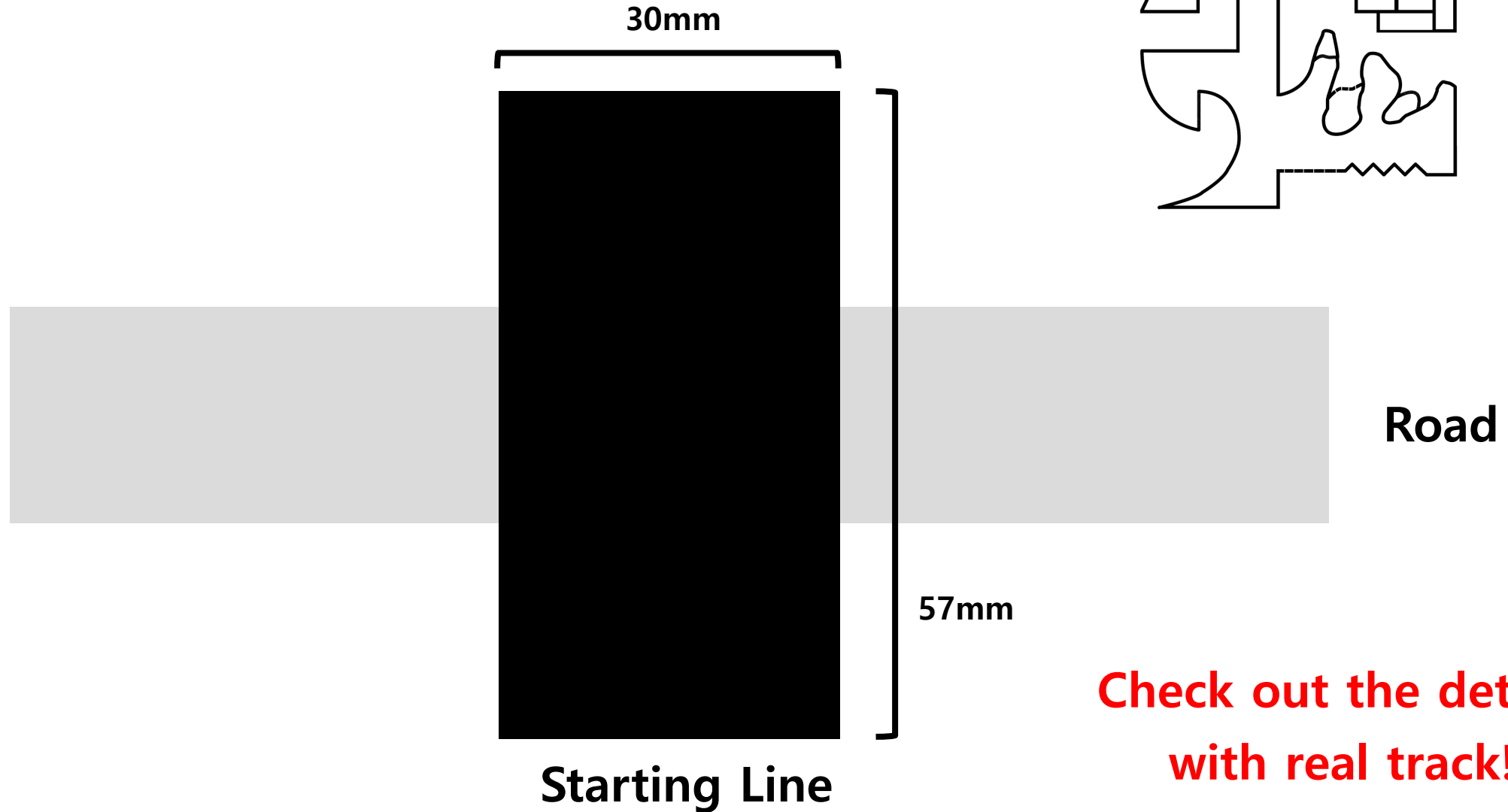
## Main Track Specification – Noise

### Noise Type

- broken road
- old road



## Main Track Specification – Starting Line





# Evaluation

## Easy Track (20 points)

- only pass or fail (20 or 0)

## Main Track (70 points)

- 20 points when you finish
- 1 ~ 50 bonus points by **Total Lap Time**

## Document (10 points)

## Peer Assessment

- Your Total Points will be calculated by (Total Score \* N%)

Lap Time	Score
00:00 ~ 00:30	50
00:30 ~ 00:35	49
00:35 ~ 00:40	48
...	...
04:25 ~ 04:30	2
04:30 ~ 04:35	1
04:35 ~ 99:99	0

Main Track Score Table

# About Documentation

## The Following Must Be Included

- Describe your core routine
- Describe your noise handling algorithm
- **peer assessment**
  - 0 ~ 100%
  - Final Score = (Easy + Main + Document Score) \* Contribution%
  - There is no advantage if the contribution is 100

Name	Contribution (%)
Jin Hwan	100
Tae Wook	80

**Peer Assessment Example**

## Submission

- Submit to LMS (**All team members must submit respectively, but same file**)
- PDF Format, 2 Pages
- Until 12/19, 23:59

## **Track Schedule**

- **You can always try in class time**
- **You cannot challenge outside of class time.**
  
- **If you lose, your grade is F.**
- **From today, please bring your own robot.**

# Summary

- From today, only Q&A will be conducted during the practice class.
- If you have no questions or don't want to use the track, you don't have to come.
- Similarly, no separate attendance is checked.
- From then on, you can freely proceed according to your final goal.
- Existing classes will have tracks for you to practice.
- All of these matters will be applied from this Friday.
- From next week, you can practice on Tuesday and Thursday.
- After the end of the final exam (12/5), you can use it on Monday.
- Please return it by December 19th, and if you have nothing more to use, you can return it to room 704 of the it/bt building.