

October 2023

November 2023

December 2023

January 2024

February 2024

March 2024

April 2024

23

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Project Status 1

Project Status 2

Project Status 3

Qualification

Project Status 4

Final

Computer Vision

8

1

Try object detection yolov8n #8

2

Lane Detection training

3

Lane detection

4

Lane mapping

5

Optimize Object Detection

6

Implement parking spot detection

7

Debug and robust computer vision

8

Further development (see what is needed...)

+

Add item

Wed, Nov 15 - Wed, May 15 2024

Try object detection yolov8n #8

Lane Detection training

Lane detection

Lane mapping

Optimize Object Detection

Implement parking spot detection

Debug and robust computer vision

Further development (see what is needed)

Ego Localization

4

9

Localization Training

10

Implement GNSS, IMU and Visual Data fusion

11

Test and Debug Localization IRL

12

Cars movement prediction

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Thu, Nov 16 - Sun, Apr 14 2024

Localization Training

Implement GNSS, IMU and Visual Data fusion

Test and Debug Localization IRL

Cars movement prediction

Hardware

5

13

Extract depth map from 3D Cam #9

14

Install Bosch ROS 1 software to new car

15

Install new camera into car

16

Build IRL Localization system on the track

17

Install new processor into car

+

Add item

Mon, Dec 11 - Sun, Feb 11 2024

Extract depth map from 3D Cam #9

Install Bosch ROS 1 software to new car

Install new camera into car

Build IRL Localization system on the track

Install new processor into car

Motion planning

9

18

Motion Planning training

19

Implement trajectory following in Simulator

20

Implement default, and intersection states in Sim

21

Test and Debug Motion Planning IRL

22

Implement parking state in Sim

23

Implement high-level planner in Simulator

24

Implement vehicle following, overtaking and lane switch

25

Test and debug handling of all situations

26

Implement Speed Challenge

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Wed, Nov 15 - Wed, May 15 2024

Motion Planning training

Implement trajectory following in Simulator

Implement default, and intersection states in Sim

Test and Debug Motion Planning IRL

Implement parking state in Sim

Implement high-level planner in Simulator

Implement vehicle following, overtaking and lane switch

Test and debug handling of all situations

Simulator

4

27

Install Simulator

28

Implement GNSS error

29

Connect Simulator and car

30

Implement v2x communication in Sim

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Add item

Wed, Nov 15 - Sun, Apr 14 2024

Install Simulator

Implement GNSS error

Connect Simulator and car

Implement v2x communication in Sim

