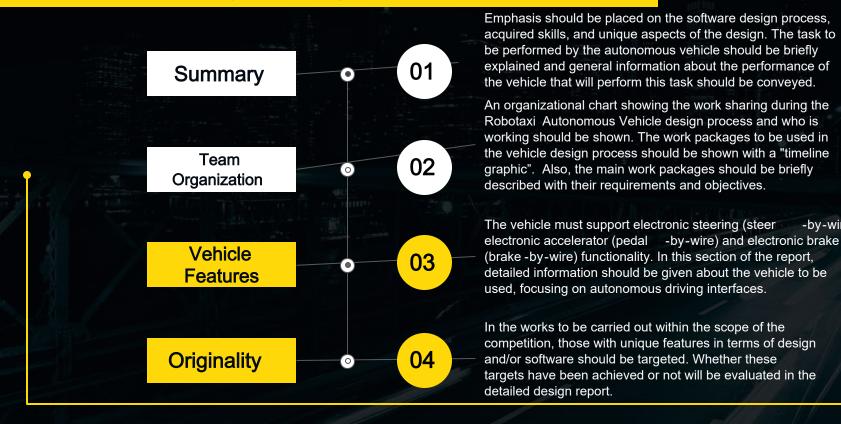
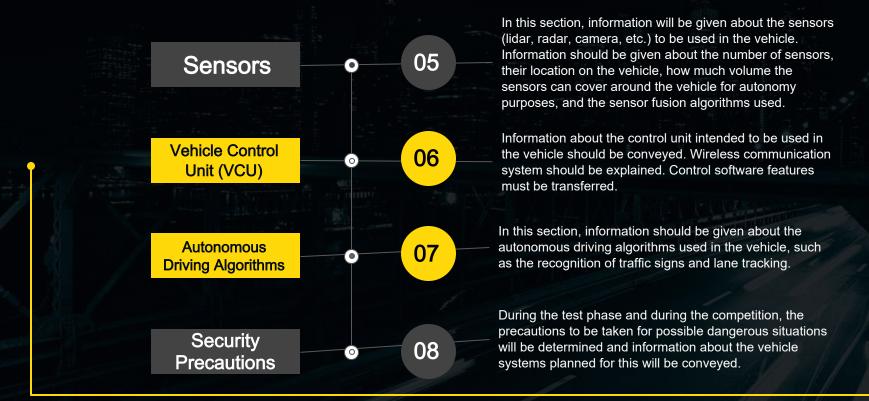


Preliminary Design Report



-by-wire).

Preliminary Design Report



Preliminary Design Report



The video of the realized simulation will be uploaded to YouTube before the date specified in the specification and its name/link will be included in this section of the report. Team information should be included in the video to be uploaded. No changes will be made on the video after the date specified in the specification. This video is considered as proof of concept of the simulation.

You should specify the resources, websites, trainings, books, articles, etc. you have used in this section.

TASK DEPENDENCIES



TASK PARTITIONING

		·	the state of the s						
Team Member	VCU	Sensors	Vehicle Features	Body, Design & Mechanical Parts	Algorithms	Simulation	Security Precautions	Report Writing	
Afef Salhi		~	~		~			~	
Ameni Jellali		~			V		~		
Amin Guesmi				~					
Fadhel Essid						~			
Fatma Zahra Trabelsi					~				
Hadil Sridi	V		V				~		
Hamza Jmii		~							
Nesrin Abidi	~		V				~		
Oussama Jouni	~	~			V				
Racem Ghorbel						~			
Mohamed Yassine Bouaziz				V					
Wael Aissaoui				~					
Elyes Khechine	V	~	~	V	V	V	~	~	

Preliminary Design Report Scoring

Section		Scoring		
1	Summary	5		
2	Team Organization	5		
3	Vehicle Features	10		
4	Originality	15		
5	Sensors	5		
6	Autonomous Driving Algorithms	15		
7	Vehicle Control Unit	15		
8	Security Precautions	5		
9	Simulation	$(P-1500) \cdot 0.02$ *		
10	References	5		

^{*} P, represents the scores from the simulation according to Table 3 in the competition specification.

Overall Competition Scoring

Task Type	Point
Starting To Move The Vehicle	200
Picking-Up Passengers According To The Rules	500
Droping-Off Passengers According To The Rules	500
Reaching To The Parking Point	500
Parking According To The Rules	500
Following The Right Path (Not Acting in Violation of Reverse Direction)	500
Preliminary Design Report Score (Evaluated Out of 100)	100 (max)
Critical Design Report Score (Evaluated Out of 100)	100 (max)
Competition Evaluation Presentation Score	100 (max)
First Traffic Rule Violation	-50
Second Traffic Rule Violation	-100

Table 3 - Task and Penalty Points

Simulation Video Evaluation

- Creating a racing track in any simulation environment
- Creation of the vehicle and sensors in accordance with the specified technical requirements
- in the simulation environment
- Performance of tasks (will be shown through the selected simulation program during the presentation)
- The results of the study should be sufficient and meaningful, supported by graphics and figures
- As a result of the student's preliminary design work, the plan and program for the future stages
- Modern engineering software and hardware selection/use
- Required background work and analysis
- Including the necessary technical data (all technical data must be included in the preliminary design report)
- Professional presentation skills
- Presentation video durations will be a maximum of 10. It should be noted that video durations will not be
 flexible. Teams have to explain the simulations they include in their reports during the presentation video.
- Preliminary design report and presentation video will be evaluated according to the template to announced on the website. The teams to be supported will be determined according to the score ranking that will be formed by the evaluation of the preliminary design report and presentation as stated in the appendix.