INSTRUCTIONS:

Fill out the hazard analysis and risk assessment below.

HA-001 should be for the lane departure warning function as discuss HA-002 should be for the lane keeping assistance function as discuss Then come up with your own situations and hazards for the lane assi When finished, export your spreadsheet as a pdf file so that a review

Hazard ID			
	Operational Mode	Operational Scenario	Environmental Details
HA-001	OM03 - Normal Driving	OS04 - Highway	EN06 - Rain (slippery ι
HA-002	OM03 - Normal Driving	OS03 - Country Road	EN01 - Normal
HA-003	OM03 - Normal Driving	OS04 - Highway	EN01 - Normal
HA-004	OM03 - Normal Driving	OS03 - Country Road	EN01 - Normal

ed in the lecture. sed in the lecture. stance system. Fill in the HA-003 and HA-004 rows. er can easily see your work.

Situational Ana	alysis		
Situation Details	Other Details (optional)	Item Usage (function)	Situation Description
SD02 - High speed		IU01 - Correctly	Normal driving on a highway during rain
SD02 - High speed		IU02 - Incorrectly	Normal driving on a country road during
SD02 - High speed		IU01 - Correctly	Normal driving on a highway during
SD02 - High speed		IU01 - Correctly	Normal driving on a country road during

			Hazard Identification
Function	Deviation	Deviation Details	Hazardous Event
runction	Deviation		(resulting effect)
Lane Departure	DV04 - Actor	The Lane Departure	EV00 - Collition with
Lane Keeping	DV03 -	Lane Keeping function is	EV00 - Collition with
Lane Departure	DV02 -	The camera sensor stop	EV00 - Collition with
Lane Keeping	DV02 -	The camera sensor stop	EV00 - Collition with

Event Details	Hazardous Event	Exposure
	Description	(of situation)
High haptic feedback can affect	The Lane Departure Warning	E3 - Medium
Driver use the function as if the	The driver do not use the	E2 - Low
The Lane Departure Warning	The Lane Departure Warning	E3 - Medium
The Lane Keeping Assistance	The Lane Keeping Assistance	E3 - Medium

Hazardous Event Classification			
Rationale	Severity	Rationale	Controllability
(for exposure)	(of potential harm)	(for severity)	(of hazardous event)
Driving on a highway with rain	S3 - Life-threatening or	Collitions at high	C3 - Difficult to control or
The conviation beween driving at	S3 - Life-threatening or	Collitions at high	C3 - Difficult to control or
Driving on a highway with rain	S3 - Life-threatening or	Collitions at high	C3 - Difficult to control or
Driving on a highway with rain	S3 - Life-threatening or	Collitions at high	C3 - Difficult to control or

	Determination of ASIL and Safety Goals		
Rationale	ASIL	Safety Goal	
(for controllability)	Determination		
It is difficult to stay calm and react properly when	С	The oscillating steering torque from the	
When the driver loose focus on driving, it is	В	The Lane Keeping Assistance function	
When the driver loose control of the vechicle is	С	The Lane Departure Warning function	
When the driver loose control of the vechicle is	С	The Lane Keeping Assistance function	