INSTRUCTIONS:

Fill out the hazard analysis and risk assessment below.

HA-001 should be for the lane departure warning function as discussed in the HA-002 should be for the lane keeping assistance function as discussed in the lane come up with your own situations and hazards for the lane assistance. When finished, export your spreadsheet as a pdf file so that a reviewer can

Hazard ID			
	Operational Mode	Operational Scenario	Environmental Details
HA-001	OM03 - Normal driving	OS04 - Highway	EN06 - Rain (slippery road)
HA-002	OM03 - Normal driving	OS03 - Country Road	EN01 - Normal conditions
HA-003	OM03 - Normal driving	OS05 - Mountain Pass	EN03 - Fog (degraded view)
HA-004	OM03 - Normal driving	OS05 - Mountain Pass	EN08 - Glace (slippery road)

he lecture. the lecture. system. Fill in the HA-003 and HA-004 rows. easily see your work.

Situational Analys	sis		
Situation Details	Other Details (optional)	Item Usage (function)	Situation Description
SD02 - High speed		used	Normal Driving on Highway during
SD02 - High speed		IU02 - Incorrectly	Normal Driving on Country Road during
SD02 - High speed		IU01 - Correctly	Normal Driving on Mountain Pass during
SD02 - High speed		IU01 - Correctly	Normal Driving on Mountain Pass during

The Driver used the functi

Hazard Identificati			Hazard Identification
Function	Deviation	Deviation Details	Hazardous Event
Function			(resulting effect)
Lane Departure	DV04 - Actor	The LDW function applies	EV00 - Collision with
Lane Keeping	DV03 -	Lane Keeping Function is	EV00 - Collision with
Lane Departure	DV19 - Sensor	Camera is not able to	EV02 - Collision with
Lane Departure	DV04 - Actor	The LDW function applies	EV03 - Car spins out

on to mimic autonomous car, thus lost focus from driving.

Event Details	Hazardous Event	Exposure
	Description	(of situation)
High haptic feedback can affect	The LDW function applies too	E3 - Medium
The Driver used the function to	Lane keeping function is	E2 - Low
The Lane Departure warning	The LDW function didn't work	E2 - Low
High haptic feedback can affect	The LDW function applies too	E2 - Low

Hazardous Event Classification			
Rationale	Severity	Rationale	Controllability
(for exposure)	(of potential harm)	(for severity)	(of hazardous event)
Driving on highway during rain	53 - Lile-threatening or	collision at high spped	(of hazardous event)
This can happen few times to a	S3 - Life-threatening or	collision at high spped	C3 - Difficult to control or
Fog Days happen a few times a	S3 - Life-threatening or	collision at high spped	C3 - Difficult to control or
Glace happens few times a year	S3 - Life-threatening or	collision at high spped	C3 - Difficult to control or

	Determination of ASIL and Safety Goals		
Rationale	ASIL	Safety Goal	
(for controllability)	Determination	Salety Goal	
Its difficult to control car with excessive vibratons	С	Oscillating tourque should be limited	
Lane assistance system is always on , driver may	В	Lane assistance system should be time	
The Driver believes that the system is working as	В	The Lane Departure Warning System sha	
Its difficult to control car with excessive vibratons	В	Oscillating tourque should be limited	

