INSTRUCTIONS:

Fill out the hazard analysis and risk assessment below.

HA-001 should be for the lane departure warning function as discussed in HA-002 should be for the lane keeping assistance function as discussed in Then come up with your own situations and hazards for the lane assistanc When finished, export your spreadsheet as a pdf file so that a reviewer car HA-003 Car Display ECU

HA-004 Camera Sensor

Hazard ID			
	Operational Mode	Operational Scenario	Environmental Details
HA-001	OM03 - Normal Driving	OS03 - Highway	EN01 - Normal
HA-002	OM03 - Normal Driving	OS03 - Highway	EN01 - Normal
HA-003	OM03 - Normal Driving	OS03 - Highway	EN01 - Normal
HA-004	OM03 - Normal Driving	OS03 - Highway	EN01 - Normal

the lecture.

1 the lecture.

2 system. Fill in the HA-003 and HA-004 rows.

1 easily see your work.

Situational Ana	alysis	
Situation Details	Other Details (optional)	Item Usage (function)
SD03 - High speed	Night Time + Flow	Correctly used
SD03 - High speed	Night Time + Flow	Correctly used
SD03 - High speed	Night Time + Flow	Correctly used
SD03 - High speed	Night Time + Flow	Correctly used

Situation Description	Function	Deviation
Normal Driving on Highway during Normal	Lane Departure Warning	DV01 - Function not activated
Normal Driving on Agyway during Normal	Lane Keeping	DV01 - Function not activated
אויווש ווייטוווש ווייטוווש ווייטוווש ווייטוווש ווייטוווש ווייטוווש dov	ovotametalbensido	DV01 - Function not activated
ारणाता जारणातु जा तिष्ठेशिक्ष्यं प्रधानित राजाति	chall datast the the read	DV13 - Sensor sensitivity is too l

Hazard Identification		
Deviation Details	Hazardous Event (resulting effect)	Event Details
Automatic Oscillating	EV00 - Collision with other vehicles	Vehicle crashes into other vehicles
Steering torque was not	EV00 - Collision with other vehicles	Vehicle crashes into other vehicles
Car display did not provide Warniera selisor does hor	EV07 - None	Driver is not noticing the feedback
detect the long and as a	EV00 - Collision with other vehicles	Vehicle crashes into other vehicles

Hazardous Event Description	Exposure	Rationale
Tiazardous Event Bescription	(of situation)	(for exposure)
Failure of oscillating steering	E3 - Medium probability	High driving is part of regular driving
Failure of Steering wheel torque	E2 - Low probability	High driving is part of regular driving
Failure of Car Display system	E1 - Very low probability	High driving is part of regular driving
Failure of Camera Sensors	E1 - Very low probability	High driving is part of regular driving

Hazardous Event Classification			
Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)	
53 - Life-threatening or	, , ,		
33 - <u>Lintal injuriening or</u>	Because the driver is	C3 - Difficult to control or uncontrollable	
fotal injurios	Because the driver is	C3 - Difficult to control or uncontrollable	
S0 - No Injuries	Severity would be low	C0 - Controllable in general	
55 - Lile-tilledterling of	Because the driver is	C3 - Difficult to control or uncontrollable	

	Determin
Rationale	ASIL
(for controllability)	Determination
The malfunction was that the lane keeping	С
The malfunction was that the lane keeping	В
Driver still has steering wheel feedback	QM
The malfunction was that the lane keeping	Α

nation of ASIL and Safety Goals

Safety Goal

be time limited and the additional steering
be time limited and the additional steering
rotar loss of Car Display ECO warning sharp

- THE DIVER SHOULD SHOULD HAVE BEEN A STREET SHOULD SHOULD