

PROJECT SPECIFICATION

Functional Safety of a Lane Assistance System

Project Documents

CRITERIA	MEET SPECIFICATIONS
Have all of the documents been submitted?	<p>The Submission includes following files,</p> <ul style="list-style-type: none">• 01_SafetyPlan_LaneAssistanceDocument.pdf• 02_HazardAnalysisAndRiskAssessmentDocument.pdf• 03_FunctionalSafetyConcept_LaneAssistanceDocument.pdf• 04_TechnicalSafetyConcept_LaneAssistance_Document.pdf• 05_SoftwareRequirementsAndArchitecture_LaneAssistance_Document.pdf <p>For better clarity and readability, I have highlighted all my inputs to the template files as presented in the form of .pdf files above in blue coloured font</p>

Safety Plan

CRITERIA	MEET SPECIFICATIONS
Does the submission demonstrate a working knowledge of how to develop a safety plan?	<p>All required sections of the given template file:</p> <p>01_SafetyPlan_LaneAssistance_Template.docx is filled out and answers includes:</p> <p>purpose of the safety plan, item definition, goals and measures, safety culture, safety lifecycle tailoring, development interface agreement, confirmation measures.</p> <p>Yes. I have understood from the lessons and this exercise that what a safety plan is and how to make a safety plan.</p>

Hazard Analysis and Risk Assessment

CRITERIA	MEET SPECIFICATIONS
Does the submission demonstrate how to document a hazard analysis and risk assessment?	<p>Two analyses (hazard analysis and risk assessment) is documented using the Excel template and shown in the .pdf file 02_HazardAnalysisAndRiskAssessmentDocument.pdf</p>
Does the submission include two other reasonable hazard analyses for the lane assistance system that were not discussed in the lessons?	<p>Yes – Please refer HA-003 and HA-004 provided in the document “02_HazardAnalysisAndRiskAssessmentDocument.pdf”</p>

Functional Safety Concept

CRITERIA	MEET SPECIFICATIONS
Does the submission show an understanding of how to document a functional safety concept?	All required sections from the functional safety concept template are completed and presented as "03_FunctionalSafetyConcept_LaneAssistanceDocument.pdf" File.

Technical Safety Concept

CRITERIA	MEET SPECIFICATIONS
Does the submission demonstrate an understanding of how to document a technical safety concept?	All required sections of the template has been filled out in the document "04_TechnicalSafetyConcept_LaneAssistance_Document.pdf". The five technical safety requirements for the lane departure warning amplitude, as taught in the lessons, are documented correctly.
Does the submission show a knowledge of how to derive technical safety requirements?	Technical safety requirements are also derived for the lane departure warning frequency malfunction and the lane keeping assistance time malfunction and documented

Software Requirements and System Architecture

CRITERIA	MEET SPECIFICATIONS
Does the submission demonstrate an understanding of how to document software safety requirements and a software architecture?	All required sections of the software requirement and architecture document such as inputs to software requirements., software requirements, and refined architecture etc have been completed in document "05_SoftwareRequirementsAndArchitecture_LaneAssistance_Document.pdf" The submission only documents software safety requirements for the lane departure warning amplitude malfunction, which were given in the lessons.