RISK 1 (R001)								
Project Name	Mazda AutoDrive	Division	Development	Project Impact Phase	Development Phase			
Risk Creator	Urvashi Burman	PM	Himanshu Mandloi	Risk Trigger	Software Integration Failure			
Risk Type	Technology Risk	Risk Owner	Software Tester	Review Date	19th March, 2023			
Risk #	1	Risk Identified by	Urvashi Burman, Urvi Tank	Max Cost	\$80,000			
Open Date	6-Mar-23			Min Cost	30,000.00			
Risk Description				Most Likely Cost	\$55,000.00			
					Risk Score			
				Cost Impact	\$80,000			
Integration of software along with the hardware in the development due to software code bugs and wireframe design errors. This failure can be caused by the inability to handle big-time data in real-time, lack of executive support, poor communication and scope creep. This				Schedule Impact	30 Days			
	can result in an increase in the timeline to integrate into the development phase and a longer testing phase in the project impacting a delay in the final approval by 55 days and an additional cost of 450,000 USD will be incurred.				8			
				Scope Impact	7			
				Probability	70%			
Preventative Measures (Risk)						Date Completed		
1. Allocating the testing team to conduct testing of software and hardware components individually and thoroughly before integration to identify and fix any bugs and design errors before they become a major issue.								
2. Finalize software objectives prior to development and conduct regular code reviews to identify any potential errors in the software code and address them before they become a big issue  22nd March, 2023								
3. Provide an adequate comm	3. Provide an adequate communication plan between the hardware and software development teams to ensure that they work in harmony to avoid integration issues.							
4. Strategize a backup plan in o	4. Strategize a backup plan in case something goes wrong with the primary supplier.							
Contingency Measures (Issue)								
1. Develop a backup plan to ensure that the project can continue to move forward even if there are delays or issues in the development process.						- Date Completed		
2. Conduct regular code reviews to identify and address any issues before they become major problems.								
3. Use version control software to track changes to the code and ensure that all changes are properly documented.								
Closure Description								
The integration of software and hardware in development will be successful due to propersoftware code, wireframe design, and adequate testing.								

RISK 2 (R002)							
Project Name	Mazda AutoDrive	Division	Testing	Project Impact Phase	Testing Phase		
Risk Creator	Himanshu Mandloi	РМ	Himanshu Mandloi	Risk Trigger	Object detection failure		
Risk Type	Performance Risk	Risk Owner	Hardware and Software Tester	Review Date	6th March, 2023		
Risk #	2	Risk Identified by	Yasaswi Madala, Himanshu Mandloi	Max Cost	\$50,000.00		
Open Date	4-Mar-22			Min Cost	\$10,000.00		
Risk Description					\$22,000.00		
					Risk Score		
The make which for the A. A.		aring a late are also as a leasuring		Cost Impact	\$249,999.50		
			re or software system malfunctions could impair te to occlusion, lighting conditions, sensor	Schedule Impact	20 Days		
limitations, complex environment, adverse weather conditions, and lack of training data. As a consequence, product release may be postponed by 20 days and an additional cost of 250,000 USD.				Quality Impact	9		
				Scope Impact	3		
				Probability	30%		
Preventative Measures (Risk)						Date Completed	
1. Appropriate environm	ent set-up prior to the start	of the testing phase to avoid	d external errors.				
2. Cautiously checking the algorithm provided by the senior testers and SMEs to avoid a lack of diverse and representative training data, hardware components checking, and integration checking.							
3. Conduct ample testing	prior to FDJ testing to disco	over hidden bugs and glitche	s that may affect the functionality of the Autopil	ot feature.		1	
Contingency Measures (	Issue)						
1. To mitigate the risk of system failure, contingency plans should include backup systems or redundant software that can take over in case of any malfunctions.							
2. Proper emergency pro	cedures and protocols shou	ld be established in case of a	any accidents or system failures to ensure the saf	ety of drivers and passengers.			
Closure Description							
The object detection of N	Mazda's autonomous nilot fe	Pature in the car is a success	due to adequate sensor development, training d	ata algorithm, and continous monit	toring during the development pha	ase.	

The object detection of Mazda's autonomous pilot feature in the car is a success due to adequate sensor development, training data algorithm, and continous monitoring during the development phase.

RISK 3(R003)							
Project Name	Mazda AutoDrive	Division	Research & Development	Project Impact Phase	Research Phase		
Risk Creator	Sowmiya Mankala	PM	Himanshu Mandloi	Risk Trigger	Extensive Research		
Risk Type	Financial Risk	Risk Owner	R&D Expert	Review Date	6th March, 2023		
Risk #	3	Risk Identified by	Sowmiya Mankala, Kuldeep Owalekar	Max Cost	\$50,000.00		
Open Date	5-Mar-22			Min Cost	\$5,000.00		
Risk Description				Most Likely Cost	\$10,000.00		
					Risk Score		
A strong R&D team who	o can make detailed and accu	rate analyses by conducting e	Cost Impact	\$50,000.00	1		
		chnical challenges, optimized rements. This may impact the project	Schedule Impact	10			
with a reduced timeline	and schedule, and a cost re	Quality Impact	2				
brand name and quality	<i>i</i> .		Scope Impact	3			
			Probability	30%			
Preventative Measures	(Risk)					Date Completed	
1. Research can be monitored by the Project Manager and Subject Matter Expert resulting in increased clarity for the scope and project objectives, enhance creativity and quality, solid foundation to avoid risk.							
2. A better competitive analysis helps in identifying issues and avoiding risks in software and hardware development and leads to effective testing procedures for better quality.						22nd March, 2023	
3. Ensure that the research and development team has adequate resources and extentive expert support to conduct the research effectively, including funding, personnel, and tools.							
Contingency Measures	(Issue)						
1. Utilize the research to identify the right integration method, and appropriate test case methods to produce adaptive cruise control, emergency and safety protocols, and user-friendly controls.						Date Completed	
2. The determined research identified can be positive to develop AutoDrive for Mazda and also any development of product in the future.							
Closure Description							
If the extensive research does not take place, the actual cost and schedule of the project will remain the same and the risk will no longer be valid.							