1.

Question 1

Which from the below options is the most **ACCURATE**and **COMPLETE**definition of **risk** in terms of self-driving vehicles?

**0 / 1 point**



Risk is any exposure to possible loss or injury



Risk is a probability or threat of damage, injury, liability, loss, or any other negative occurrence that is caused by external or internal factors ( - )



Risk is a probability that an event occurs combined with the severity of the harm that the event can cause



Risk is a condition in which there is a possibility of an adverse deviation from the desired or expected outcome



None of the above

**Incorrect**

Incorrect, please review Lesson 1: Safety Assurance for Self-Driving Vehicles.

2.

Question 2

Which of the following are **major components** of an autonomous driving system? (Select all that apply)

**1 / 1 point**



Adaptation



Planning

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.



Configuration



Control

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.



Perception

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.

3.

Question 3

What are the most common categories of autonomous vehicle**hazard sources**? (Select all that apply)

**0.8 / 1 point**



Hardware and software

**Correct**

Correct! This is a major hazard source.



Electrical and mechanical

**Correct**

Correct! This is a major hazard source.



Perception and planning

**Correct**

Correct! This is a major hazard source.



Malicious software

**Correct**

Correct! This is a major hazard source.



Driver inattention

You didn’t select all the correct answers

4.

Question 4

Is the following statement TRUE or FALSE?

The safety framework to structure safety assessment for autonomous driving defined by NHTSA is **MANDATORY**to follow.

**0 / 1 point**



TRUE



FALSE

**Incorrect**

Incorrect, please review Lesson 1: Safety Assurance for Self-Driving Vehicles.

5.

Question 5

Which categories are included in the **safety framework** to structure safety assessment for autonomous driving defined by NHTSA? (Select all that apply)

**0.75 / 1 point**



Well-organized software development process

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Digital vehicle model design

**This should not be selected**

Incorrect, please review Lesson 1: Safety Assurance for Self-Driving Vehicles.



Autonomy design

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Testing and crash mitigation

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.

6.

Question 6

Which actions are needed to be performed **in the event of an accident** by an autonomous vehicle? (Select all that apply)

**0.8 / 1 point**



Returning car to a safe state



Alerting first responders

**Correct**

Correct! An autonomous vehicle should quickly alert first responders in the event of an accident.



Locking all doors



Securing fuel pumps

**Correct**

Correct! Securing fuel pumps in the event of a crash is critical for preventing further potentially dangerous situations.



Data recording to a black box

**Correct**

Correct! An autonomous vehicle needs to have an automated data recording function or black box recorder. It is very helpful to have this crash data to analyze and design systems that can avoid this specific kind of crash in the future.

You didn’t select all the correct answers

7.

Question 7

What are the**most common**accident scenarios? (Select all that apply)

**0.667 / 1 point**



Intersection

**Correct**

Correct! All the correct accident scenarios from this question account for over 84% of all crashes.



Rear-end

**Correct**

Correct! All the correct accident scenarios from this question account for over 84% of all crashes.



Road departure



Rollover



Crosswalk

**This should not be selected**

Incorrect, please review Lesson 2: Industry Methods for Safety Assurance and Testing.



Lane change

**Correct**

Correct! All the correct accident scenarios from this question account for over 84% of all crashes.

8.

Question 8

What kind of **safety system** is described by the following definition? This system can be analyzed to define quantifiable safety performance based on critical assessment of various scenarios.

**1 / 1 point**



Data driven safety



Test driven safety



Analytical safety



None of the above

**Correct**

Correct! Analytical safety can provide strong guidance on which aspects of a system are the biggest contributors to overall safety.

9.

Question 9

According to the report by Rand Corporation, autonomous driving of 8.8 billion miles is required to demonstrate human-level fatality rate of an autonomous vehicle fleet using a 95% Confidence Interval. **How many years**is required to perform this testing with a fleet of 100 vehicles running 24 hours a day, 7 days a week at an average of 25 miles per hour? Your answer should be an integer.

**1 / 1 point**

400

**Correct**

Correct!

8,800,000,000 miles / 100 vehicles = 88,000,000 miles per vehicle

88,000,000 miles / 25 miles per hr = 3,520,000 hrs per vehicle

24 hours \* 365 days = 8,760 hrs in a year

3,520,000 hrs / 8,760 hrs in a year = 401.8 years

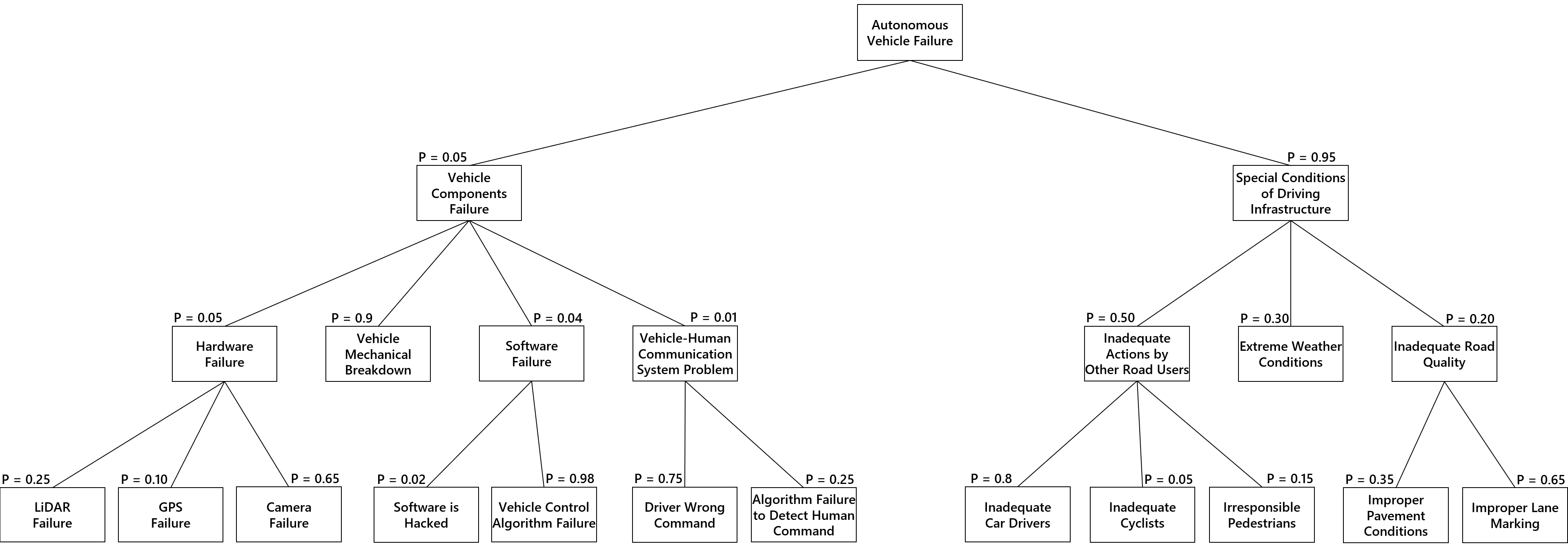
It would take at least 400 years to validate the required level of safety with a fleet of 100 vehicles traveling 24x7. That's why testing is being done today on thousands of vehicles simultaneously.

10.

Question 10

Given that an autonomous vehicle failure has happened and based on this tree, **what is the probability** that the failure happened because of Vehicle Control Algorithm Failure OR Inadequate Car Drivers? Please give your answer with the precision of 3 decimal places.

Please use this probabilistic fault tree for your computation:



**0 / 1 point**

1.78

**Incorrect**

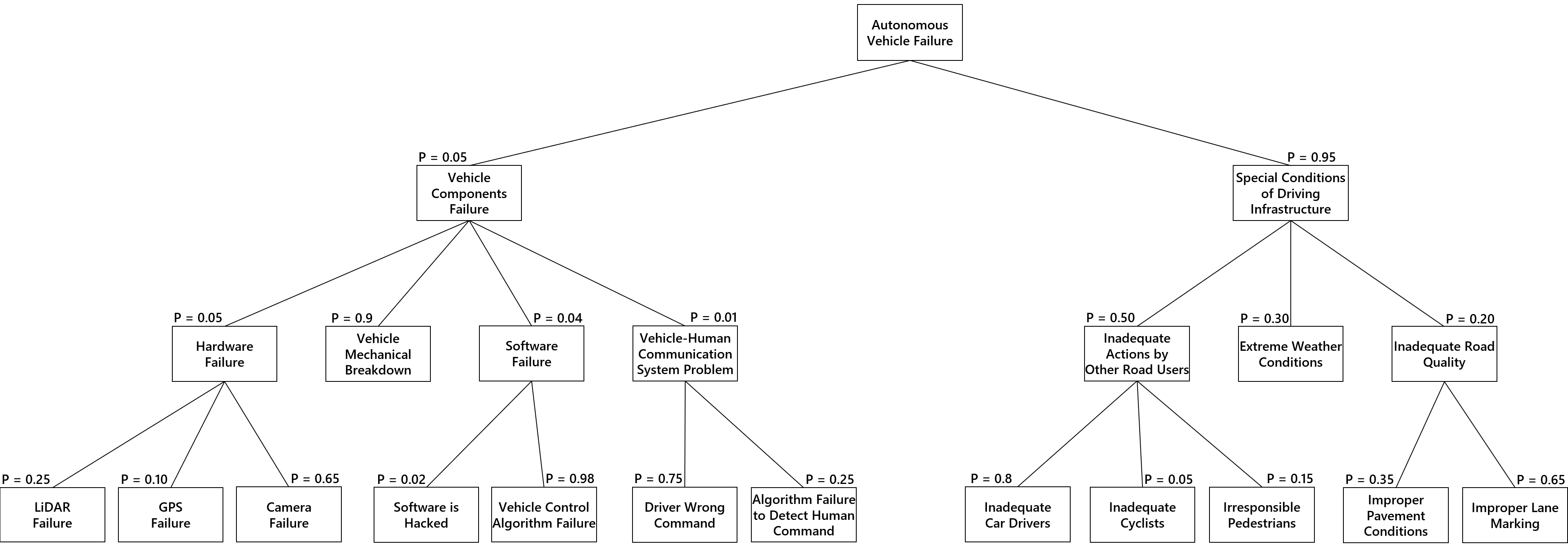
Incorrect, please review Lesson 3: Safety Frameworks for Self-Driving. The operations used to propagate the probabilities on probabilistic fault trees upwards are the same as the rules of probability when events follow set theory. The OR probabilities would be the sum of children node probabilities while AND probabilities are multiplied, assuming independence of the events.

11.

Question 11

Given that the autonomous vehicle failure has happened, and based on this tree**, what is the probability**that the failure happened because of Software Failure AND Extreme Weather Conditions at the same time? Please give your answer with the precision of 3 decimal places.

Please use the probabilistic fault tree from the previous question for your computation:



**0 / 1 point**

0.012

**Incorrect**

Incorrect, please review Lesson 3: Safety Frameworks for Self-Driving. The operations used to propagate the probabilities on probabilistic fault trees upwards are the same as the rules of probability when events follow set theory. The OR probabilities would be the sum of children node probabilities while AND probabilities are multiplied, assuming independence of the events.

12.

Question 12

A computer vision algorithm is responsible for extracting meaningful data from the onboard camera. A computer vision failure restricts the vehicle's ability to navigate the environment around it, hence a problem with this system is a serious failure. However, LiDAR and radar sense similar environment data, so a computer vision failure does not leave the vehicle completely blind. A Computer vision algorithm failure can be considered a somewhat severe failure as it decreases vehicle sensing ability and it gets a severity score of 5. This could happen regularly in low light situations, hence the occurrence number is assigned 4. Computer vision algorithm failure is fairly detectable in majority of the situations, so the detectability score is 3.

**What is the risk priority number for a Computer vision algorithm failure**according to FMEA and based on the description above? Your answer should be an integer.

**0 / 1 point**

70

**Incorrect**

Incorrect, please review Lesson 3: Safety Frameworks for Self-Driving. The risk priority number is a product of the severity, frequency and detectability of an event. Each feature of the risk priority number is assessed on the scale from 1 to 10, where 10 is being the most severe, the most frequent and the most difficult to detect.

13.

Question 13

There are failures listed below. Which failures should we focus on **solving first** according to FMEA?

**1 / 1 point**



Vehicle driving onto a gravel road (risk priority score of 400)



Vehicle motion prediction failure (risk priority score of 150)



GPS synchronization failure (risk priority score of 300)



Computer vision algorithm failure (risk priority score of 60)

**Correct**

Correct! The higher the risk priority score is, the higher priority of this failure is.

14.

Question 14

Which of the following options is the most **ACCURATE** and **COMPLETE** definition of**functional safety** in terms of self-driving vehicles?

**0 / 1 point**



Functional safety is the process of avoiding unreasonable risk of harm to a living thing.



Functional safety is the detection of a potentially dangerous condition resulting in the activation of a protective or corrective device or mechanism to prevent hazardous events arising or providing mitigation to reduce the consequence of the hazardous event



Functional safety is a deterministic algorithm outlining the procedures that are carried out to prevent hazardous events from happening or minimizing the harm caused by hazardous events to the vehicle passengers and third parties involved in the situation



Functional safety is a part of the vehicle operation management aimed to minimizing hazards, risks, accidents and near misses



None of the above

**Incorrect**

Incorrect, please review Lesson 3: Safety Frameworks for Self-Driving.

15.

Question 15

Which of the following standards defines **functional safety terms**and **activities for electrical and electronic systems** within motor vehicles?

**1 / 1 point**



ISO/TC 204



ISO 39001



ISO/PAS 21448



ISO 26262



None of the above

**Correct**

Correct! The ISO 26262 standard defines functional safety terms and activities for electrical and electronic systems within motor vehicles, and as such addresses the hardware and software hazards that can affect autonomous vehicle safety.

1.

Question 1

Which from the below options is the most **ACCURATE**and **COMPLETE**definition of **risk** in terms of self-driving vehicles?

**1 / 1 point**



Risk is any exposure to possible loss or injury



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Risk is a probability that an event occurs combined with the severity of the harm that the event can cause



Risk is a condition in which there is a possibility of an adverse deviation from the desired or expected outcome



None of the above

**Correct**

Correct! Any autonomous driving team should focus on the most likely and the most severe events first.

2.

Question 2

Which of the following are **major components** of an autonomous driving system? (Select all that apply)

**1 / 1 point**



Adaptation



Perception

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.



Planning

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.



Configuration



Control

**Correct**

Correct! This aspect of the autonomous driving system is extremely important. A mistake in this components can lead to failures and crashes.

3.

Question 3

What are the most common categories of autonomous vehicle**hazard sources**? (Select all that apply)

**1 / 1 point**



Driver inattention

**Correct**

Correct! This is a major hazard source.



Electrical and mechanical

**Correct**

Correct! This is a major hazard source.



Perception and planning

**Correct**

Correct! This is a major hazard source.



Malicious software

**Correct**

Correct! This is a major hazard source.



Hardware and software

**Correct**

Correct! This is a major hazard source.

4.

Question 4

Is the following statement TRUE or FALSE?

The safety framework to structure safety assessment for autonomous driving defined by NHTSA is **MANDATORY**to follow.

**1 / 1 point**



FALSE



TRUE

**Correct**

Correct! NHTSA safety framework was released as a suggested not, not mandatory to follow. The main objective of the NHTSA is to guide companies building self-driving cars without overly restricting innovation or pre-selecting technologies.

5.

Question 5

Which categories are included in the **safety framework** to structure safety assessment for autonomous driving defined by NHTSA? (Select all that apply)

**1 / 1 point**



Autonomy design

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Testing and crash mitigation

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Well-organized software development process

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Digital vehicle model design

6.

Question 6

Which actions are needed to be performed **in the event of an accident** by an autonomous vehicle? (Select all that apply)

**1 / 1 point**



Alerting first responders

**Correct**

Correct! An autonomous vehicle should quickly alert first responders in the event of an accident.



Returning car to a safe state

**Correct**

Correct! An autonomous vehicle's post crash behavior should include returning the car to a safe state, for example, stopping.



Data recording to a black box

**Correct**

Correct! An autonomous vehicle needs to have an automated data recording function or black box recorder. It is very helpful to have this crash data to analyze and design systems that can avoid this specific kind of crash in the future.



Locking all doors



Securing fuel pumps

**Correct**

Correct! Securing fuel pumps in the event of a crash is critical for preventing further potentially dangerous situations.

7.

Question 7

What are the**most common**accident scenarios? (Select all that apply)

**1 / 1 point**



Rear-end

**Correct**

Correct! All the correct accident scenarios from this question account for over 84% of all crashes.



Crosswalk



Road departure

**Correct**

Correct! All the correct accident scenarios from this question account for over 84% of all crashes.



Rollover



Intersection

**Correct**

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Lane change

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Question 8

What kind of **safety system** is described by the following definition? This system can be analyzed to define quantifiable safety performance based on critical assessment of various scenarios.

**1 / 1 point**



Data driven safety



Test driven safety



Analytical safety



None of the above

**Correct**

Correct! Analytical safety can provide strong guidance on which aspects of a system are the biggest contributors to overall safety.

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Question 9

According to the report by Rand Corporation, autonomous driving of 8.8 billion miles is required to demonstrate human-level fatality rate of an autonomous vehicle fleet using a 95% Confidence Interval. **How many years**is required to perform this testing with a fleet of 100 vehicles running 24 hours a day, 7 days a week at an average of 25 miles per hour? Your answer should be an integer.

**1 / 1 point**

400

**Correct**

Correct!

8,800,000,000 miles / 100 vehicles = 88,000,000 miles per vehicle

88,000,000 miles / 25 miles per hr = 3,520,000 hrs per vehicle

24 hours \* 365 days = 8,760 hrs in a year

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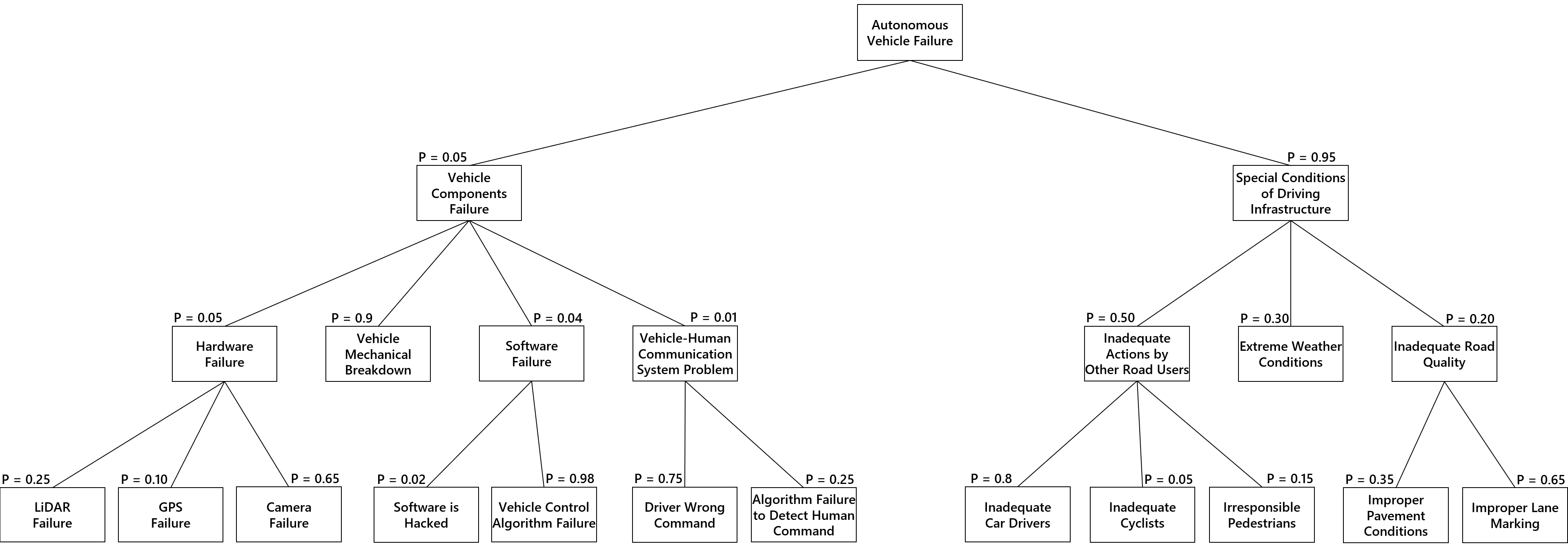
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Given that an autonomous vehicle failure has happened and based on this tree, **what is the probability** that the failure happened because of Vehicle Control Algorithm Failure OR Inadequate Car Drivers? Please give your answer with the precision of 3 decimal places.

Please use this probabilistic fault tree for your computation:



**0 / 1 point**

*No answer*

**Incorrect**

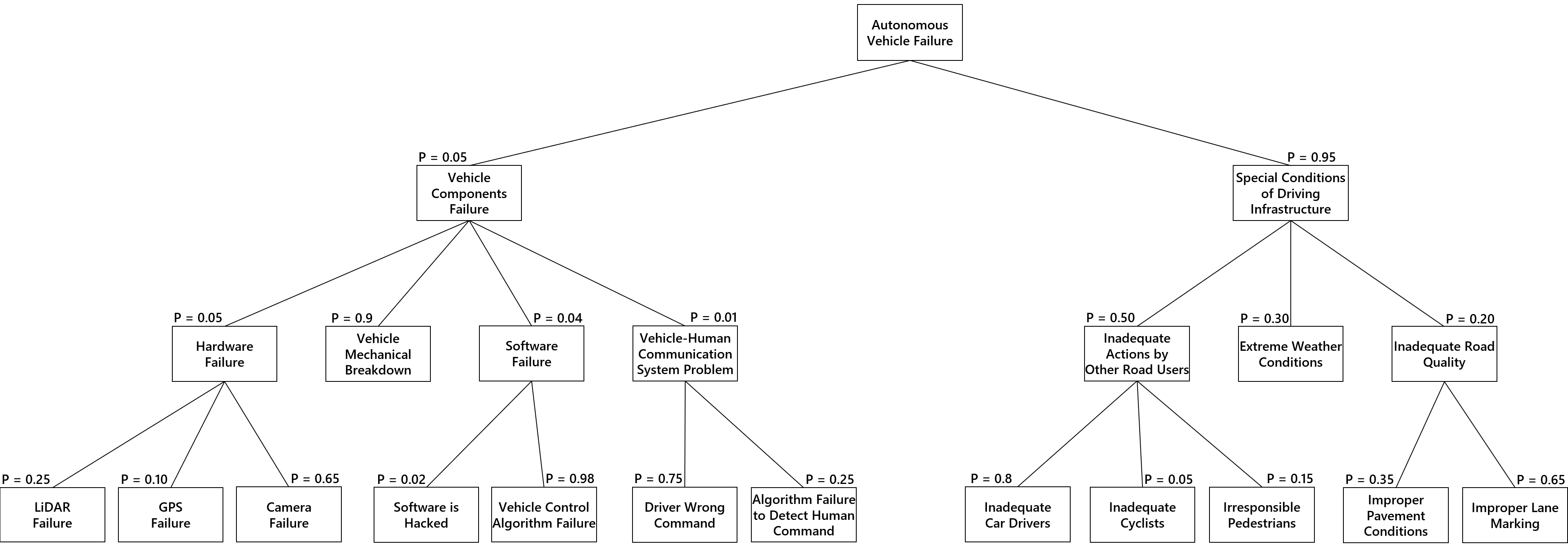
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Please use the probabilistic fault tree from the previous question for your computation:



**0 / 1 point**

*No answer*

**Incorrect**

The answer you gave is not a number.

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Question 12

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**What is the risk priority number for a Computer vision algorithm failure**according to FMEA and based on the description above? Your answer should be an integer.

**0 / 1 point**

*No answer*

**Incorrect**

The answer you gave is not a number.

13.

Question 13

There are failures listed below. Which failures should we focus on **solving first** according to FMEA?

**1 / 1 point**



Vehicle motion prediction failure (risk priority score of 150)



Computer vision algorithm failure (risk priority score of 60)



GPS synchronization failure (risk priority score of 300)



Vehicle driving onto a gravel road (risk priority score of 400)

**Correct**

Correct! The higher the risk priority score is, the higher priority of this failure is.

14.

Question 14

Which of the following options is the most **ACCURATE** and **COMPLETE** definition of**functional safety** in terms of self-driving vehicles?

**0 / 1 point**



Functional safety is the process of avoiding unreasonable risk of harm to a living thing.



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Functional safety is a part of the vehicle operation management aimed to minimizing hazards, risks, accidents and near misses



None of the above

**Incorrect**

Incorrect, please review Lesson 3: Safety Frameworks for Self-Driving.

15.

Question 15

Which of the following standards defines **functional safety terms**and **activities for electrical and electronic systems** within motor vehicles?

**1 / 1 point**



ISO/TC 204



ISO 39001



ISO/PAS 21448



ISO 26262



None of the above

**Correct**

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Question 1

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None of the above

**Correct**

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2.

Question 2

Which of the following are **major components** of an autonomous driving system? (Select all that apply)

**1 / 1 point**



Adaptation



Control

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Configuration



Perception

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Question 3

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**1 / 1 point**



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**Correct**

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**1 / 1 point**



TRUE



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Question 5

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**1 / 1 point**



Well-organized software development process

**Correct**

Correct! This is what any autonomous driving company should focus on according to NHTSA.



Testing and crash mitigation

**Correct**

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Digital vehicle model design



Autonomy design

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Question 6

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**1 / 1 point**



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Locking all doors



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**1 / 1 point**



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**1 / 1 point**



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**1 / 1 point**

400

**Correct**

Correct!

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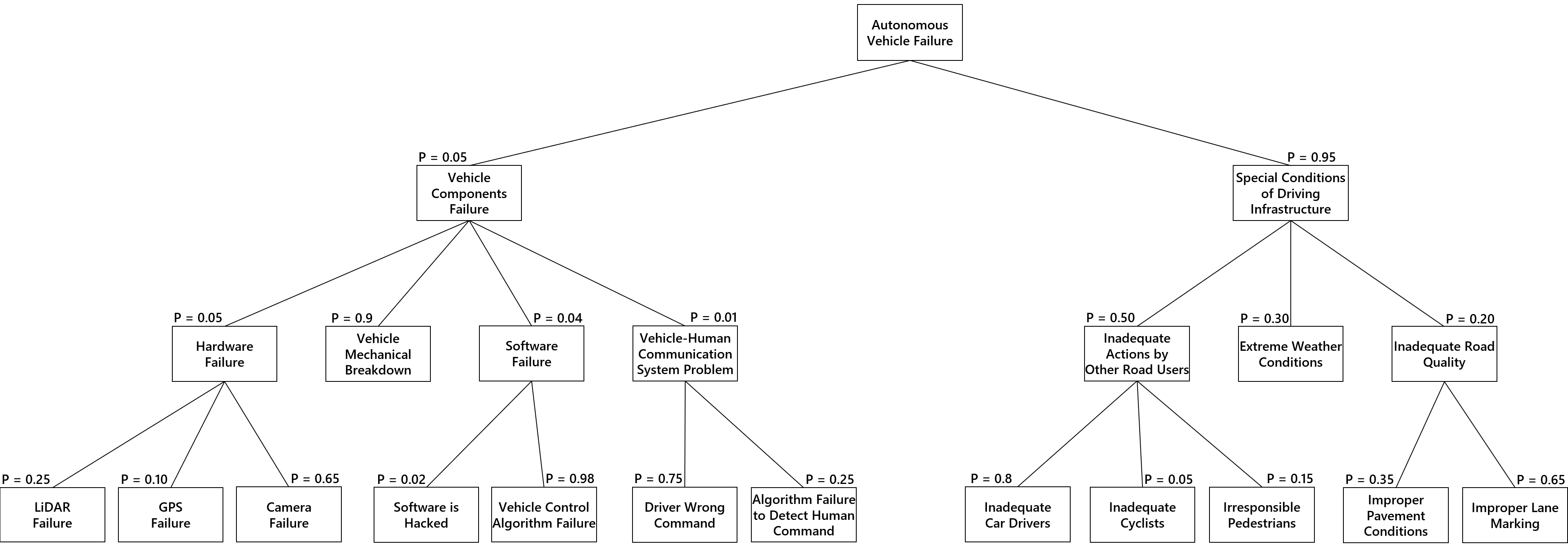
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Please use this probabilistic fault tree for your computation:



**0 / 1 point**

*No answer*

**Incorrect**

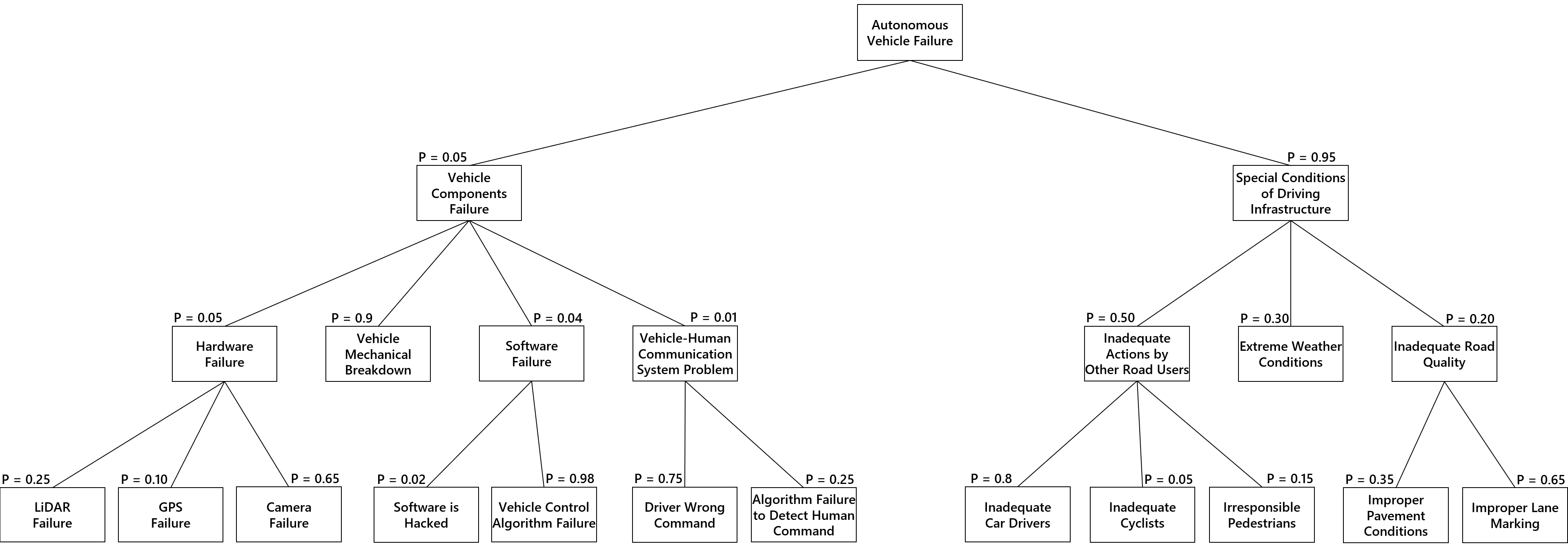
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**0 / 1 point**

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**0 / 1 point**

*No answer*

**Incorrect**

The answer you gave is not a number.

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Question 13

There are failures listed below. Which failures should we focus on **solving first** according to FMEA?

**1 / 1 point**



Computer vision algorithm failure (risk priority score of 60)



GPS synchronization failure (risk priority score of 300)



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Vehicle motion prediction failure (risk priority score of 150)

**Correct**

Correct! The higher the risk priority score is, the higher priority of this failure is.

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None of the above

**Correct**

Correct!

15.

Question 15

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