

## This is ***your*** learning journal. Make sure that you save it somewhere and keep it updated as you progress through the Project. Your teacher will let you know when to complete each step. Document both your successes and your failings as they provide the most important learning opportunities!

# Step 1: Imagine

To get started, please type your name in the following box:

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# Step 2: Define

As a group, select ONE of the Define modules at <https://alpha.createbase.co.nz/overview/send-it> to complete. Discuss all of your answers as a team, but make sure that every member writes a summary in their own learning journal in the box below. Bullet points and incomplete sentences are acceptable.

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# Step 3: Research

Walk yourself through all four of the Research modules at <https://alpha.createbase.co.nz/overview/send-it>. If you get stuck or confused, ask your classmates or a teacher.

# Step 4: Plan

Your robot will be faced with many tough decisions as a self-driving vehicle. Type your answer to these brief questions in the boxes below to explain what you think your robot should do in these situations:

1. When you were manually controlling the robot, you were using your human sensors to read information and then use that information to make a decision to perform an action.
   1. Every milli-second, you were making a decision: “do I perform action X now or wait?” What action were you performing?

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* 1. What information were *you* using to make this decision? (how did you know when to perform action X?)

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* 1. What human sensor were you using to gather this information?

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1. If your robot has to choose between hitting an unmanned drone or a family car what should it hit? Explain your reasoning.

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1. If your robot is going to crash into a family car containing four people, should it self-destruct instead? Explain your reasoning.

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1. How would your answer change if there was one pedestrian standing nearby that would be caught in the explosion? Should your robot self-destruct to avoid the family car but harm the pedestrian? Explain your reasoning.

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1. How would your answer change if instead there were four pedestrians standing nearby that would be caught in the explosion? Explain your reasoning.

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# Step 5: Create

Add comments and screenshots of your Create solution below:

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# Step 6: Improve

Add comments and screenshots of your Improve solution below:

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# Step 7: Review

Congratulations on completing the Project! Please type your answers to the following questions:

1. If you had more time available, how could you potentially improve your solution?

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1. What was your favourite step of the Creation Process and why?

(Imagine, Define, Research, Plan, Create, Improve)

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1. Think about what you achieved during the project. What are you most proud of?

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1. Think about the parts of the project that didn’t go well. List up to **three** of them below. If nothing went bad, think about things that you could have done better.

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1. Choose **one** from question 4. Why do you think it didn’t go well? If you were going to redo this Project, what would you do differently to avoid this negative?

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