## Rubric

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Knowledge, Comprehension & Application** |  |  |  |  |  |
| **CRITERIA** | **EXPECTATIONS** | **POSS** | **STUDENT** | **GIVEN** | **MULTI** | **TOTAL** |
| **Planning Document**  (group) | You have submitted evidence of completing the required learning material. This evidence is presented appropriately (Markdown) unless negotiated for a different format.  Your planning document must identify how to solve the following problems and describe how you plan to link all of the solutions together   * How will you drive your robot? * How will you steer your robot? * How will you control your robot? * How will you communicate from your controller to your robot? * How will you design your robot? * How will you integrate all of the previous solutions?   Evidence for knowledge, comprehension, and application may include:   * **Knowledge**: Your evidence highlights that you recall and list relevant terms covered in your learning. It may tell a story to the reader (the teacher) or state your learning conditions. * **Comprehension**: Your evidence highlights that you can identify key aspects of your learning or explain what you've done to the teacher. * **Application**: It is clear from your evidence that you constructed a complete submission | 2  2  2  2  2  2 | \_\_/2  \_\_/2  \_\_/2  \_\_/2  \_\_/2  \_\_/2 | \_\_/2  \_\_/2  \_\_/2  \_\_/2  \_\_/2  \_\_/2 | Ax2  Tx1 | A\_\_/24  T\_\_/12 |
| **Showcase**  (individual) | You have submitted evidence of your showcase. By default, your showcase responds to each of the three questions highlighted below. However, these questions can be negotiated or reframed with your teacher.   To achieve a passing grade (2) you must submit a serious attempt to respond to each question in each medium. By default, your submission for the showcase would be the given poster template, and both presentations   * Showcase poster * General Audience Presentation * Technical Presentation   The output can be negotiated with the teacher. Previous submissions have allowed for Google Sites, HTML, or Markdown documents.  Evidence for knowledge, comprehension, and application may include:   * **Knowledge**: Your evidence highlights that you recall and list relevant terms covered in your learning. It may tell a story to the reader (the teacher) or state your learning conditions. * **Comprehension**: Your evidence highlights that you can identify critical aspects of your learning or explain what you've done to the teacher. * **Application**: It is clear from your evidence that you constructed a complete submission | 2  2  2 | \_\_/2 \_\_/2 \_\_/2 | \_\_/2 \_\_/2 \_\_/2 | Ax2  Tx1 | A\_\_/12  T\_\_/6 |
|  | **Analysis, Synthesis & Evaluation** |  | | **SUB TOTAL** | | **A \_ / 36**  **T \_ / 18** |
| **Question 1** | **Question**: Before you started to build, what was the process you used to identify the major features of the challenge and how you would bring them all together to make a solution?  Consider your strategies for locating different aspects required for controlling a remote vehicle and how you bought them together into a single system.  Showcases are a tool **you use to highlight your learning to different audiences**. Learning how to reflect on what you learnt during your assessments and identifying what parts of your work were high quality and what you could do to improve your work is an essential aspect of education.  You will present your response to this question in 3 mediums   1. a poster presentation as a summary for general audiences 2. a recorded presentation for general audiences, which allows for extrapolation 3. a recorded presentation for technical audiences, which allows for technical details   This aspect of the assessment evaluates your ability to **analyse your learning**, identify **how and when you synthesised new understanding** on your own, and your ability to **assess your work**  Each of your questions will be marked against the following aspects of your ability to:   * To summarise your understanding of technology concepts and principles to a general audience * express **your understanding of technology** concepts and principles to a general audience * **your ability to communicate your learning** appropriately to experts   Evidence for higher-order learning may include:   * **Analysis**: Your evidence shows a reasoned understanding of what you did and why. For example, you may have explained how you did X, Y, and Z, but you continue to explain why you did them the way you did. * **Evaluative**: your evidence makes a judgement of something or between multiple things. This judgement may be the value of one thing over another or highlighting the significant differences between two things. * **Transferal**: your evidence highlights when you apply information, strategies, or skills that you have learnt to a new situation or context. | 4  4  4 | \_\_/4 \_\_/4  \_\_/4 | \_\_/4 \_\_/4  \_\_/4 | - | \_\_/12 |
| **Question 2** | **Question**: What is something that went unexpectedly wrong, and how did you get yourself back onto the path?  Conder your strategies for troubleshooting problems and how you may have provided contingencies for when things go wrong  Showcases are a tool **you use to highlight your learning to different audiences**. Learning how to reflect on what you learnt during your assessments and identifying what parts of your work were high quality and what you could do to improve your work is an essential aspect of education.  You will present your response to this question in 3 mediums   1. a poster presentation as a summary for general audiences 2. a recorded presentation for general audiences, which allows for extrapolation 3. a recorded presentation for technical audiences, which allows for technical details   This aspect of the assessment evaluates your ability to **analyse your learning**, identify **how and when you synthesised new understanding** on your own, and your ability to **assess your work**  Each of your questions will be marked against the following aspects of your ability to:   * To summarise your understanding of technology concepts and principles to a general audience * express **your understanding of technology** concepts and principles to a general audience * **your ability to communicate your learning** appropriately to experts   Evidence for higher-order learning may include:   * **Analysis**: Your evidence shows a reasoned understanding of what you did and why. For example, you may have explained how you did X, Y, and Z, but you continue to explain why you did them the way you did. * **Evaluative**: your evidence makes a judgement of something or between multiple things. This judgement may be the value of one thing over another or highlighting the significant differences between two things. * **Transferal**: your evidence highlights when you apply information, strategies, or skills that you have learnt to a new situation or context. | 4  4  4 | \_\_/4 \_\_/4  \_\_/4 | \_\_/4 \_\_/4  \_\_/4 | A x  T x | \_\_/12 |
| **Question 3** | **Question**: What is an example of some significant learning achievement you made during this project?  Think back to previous bodies of work, has there been anything that you know now that you realise that you didn't previously? Something that you struggled with before, but now it makes more sense. What is it?  Showcases are a tool **you use to highlight your learning to different audiences**. Learning how to reflect on what you learnt during your assessments and identifying what parts of your work were high quality and what you could do to improve your work is an essential aspect of education.  You will present your response to this question in 3 mediums   1. a poster presentation as a summary for general audiences 2. a recorded presentation for general audiences, which allows for extrapolation 3. a recorded presentation for technical audiences, which allows for technical details   This aspect of the assessment evaluates your ability to **analyse your learning**, identify **how and when you synthesised new understanding** on your own, and your ability to **assess your work**  Each of your questions will be marked against the following aspects of your ability to:   * To summarise your understanding of technology concepts and principles to a general audience * express **your understanding of technology** concepts and principles to a general audience * **your ability to communicate your learning** appropriately to experts   Evidence for higher-order learning may include:   * **Analysis**: Your evidence shows a reasoned understanding of what you did and why. For example, you may have explained how you did X, Y, and Z, but you continue to explain why you did them the way you did. * **Evaluative**: your evidence makes a judgement of something or between multiple things. This judgement may be the value of one thing over another or highlighting the significant differences between two things. * **Transferal**: your evidence highlights when you apply information, strategies, or skills that you have learnt to a new situation or context. | 4  4  4 | \_\_/4 \_\_/4  \_\_/4 | \_\_/4 \_\_/4  \_\_/4 | A x  T x | \_\_/12 |
|  | **Submission Guidelines** |  | | **SUB TOTAL** | | **T \_\_/36** |
| **Readability** | **Assessment submission is ordered** and has a definite pattern to its construction. **The reader is not confused about the content in any given section and can easily follow the submission flow**. | 4 | \_\_/4 | \_\_/4 | X2 | \_\_ / 8 |
| **Formatting** | **Students have** **followed the formatting instructions,** including any provided templates and guides, or created their own legible formatting guide **and applied it constantly**. | 2 | \_\_/2 | \_\_/2 | - | \_\_ / 2 |
|  |  |  | | **SUB TOTAL** | | **\_\_ /10** |
|  | DAYS LATE \_\_\_/7 = \_\_\_% |  |  | **FINAL** | | **A \_\_/82 T \_\_/64** |