

UP CRC 2021 Robotics Ideathon Scoresheet

Team No. : _____
 Judge No. : _____
 Final Score : _____

Team Members: _____
 Proposal Name: _____

| Rubric | High Score | Medium Score | Low Score | Notes | Weight | Score |
|------------------------|---|--|--|---|--------|-------|
| Hardware Design | | | | | | |
| Feasibility | The authors have shown with sufficient proof that their design can solve the given problem and that their design can be implemented in real life. | The authors have shown that their design can solve the given problem, but have not provided sufficient proof that their design can be implemented in real life. | The authors have not shown why their design can solve the given problem, nor have shown proof that their design can be implemented in real life. | Simulations and calculations are NOT required but can weigh in heavily towards scoring. | 50 | |
| Cost | <p>The authors have provided an accurate cost estimate within a reasonable amount for the capabilities of their design.</p> <p>Most of their components are sourced locally or are easily available online.</p> | <p>The authors have provided an accurate cost estimate but their cost is excessive for the capabilities of their design.</p> <p>Many of their components are hard to source.</p> | <p>The authors were not able to provide an estimate as to the cost or sourcing of components for their design.</p> <p>Alternatively, their estimated cost is prohibitively expensive or most of their components are hard to source.</p> | | 30 | |
| Innovation | The idea is unique, or has only been done by a few people. | The idea has already been done before, but the authors have added their own twist to it. | The idea is repetitive, or has already been done by many people in the past. | | 20 | |
| Ease of Fabrication | The authors have a clear idea on how to fabricate | The authors have a vague sense of how to | The authors have no clear idea how to fabricate their | | 20 | |

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| | their design. The methods listed are enough to produce without further work. | fabricate their design, but not detailed enough to produce without further work. | design. | | | |
| Total | | | | | 120 | |

| Rubric | High Score | Medium Score | Low Score | Notes | Weight | Score |
|-----------------------------|--|---|---|--|--------|-------|
| Software Design | | | | | | |
| Correctness | The provided algorithm has the correct behavior for all cases in theory, including possible edge and corner cases. | The provided algorithm has the correct behavior for most cases in theory, but fails on some edge or corner cases. | The provided algorithm does not have the correct behaviour for the given problem. | This category only accounts for theoretical performance. | 15 | |
| Resilience | The algorithm can account for most possible non-idealities, only failing in extreme conditions. | The algorithm can account for some non-idealities, but can fail in certain common conditions. | The algorithm only works in ideal conditions. | | 15 | |
| Appropriateness to Hardware | The algorithm makes full use of all included hardware and the properties of the design. | The algorithm makes use of included hardware and design, but does not use them to their full potential. | The algorithm does not make sense with the given design. | | 30 | |
| Total | | | | | 60 | |

| Rubric | High Score | Medium Score | Low Score | Notes | Weight | Score |
|------------------------------|---|---|--|-------|--------|-------|
| Documentation Writing | | | | | | |
| Completeness | The documentation is enough to construct the design in reality. | Assumptions need to be made to construct the design in reality. | The documentation is too vague to construct the design in reality. | | 20 | |

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| Understanding | The documentation is easy to understand, even for those without technical knowledge. | The provided documentation is understandable, albeit with some effort needed for those without technical knowledge. | The documentation is full of technical jargon and terminology and is difficult to understand. | | 20 | |
| Clarity | The documentation is clear in its meaning. | There are some aspects of the documentation that are vague or unclear. | The documentation is vague and unclear. | | 20 | |
| Organization | The documentation is laid out in an organized manner and a reasonable format. | The documentation is readable, but improvements could be made to its organization. | The documentation is haphazardly put together, with formatting that is disjointed and hard to read. | Dock points for missing citations. | 20 | |
| Total | | | | | 80 | |

| Rubric | High Score | Medium Score | Low Score | Notes | Weight | Score |
|---------------------|---|--|--|-----------------|--------|-------|
| Presentation | | | | | | |
| Conciseness | The presenters can deliver all information needed within the time limit. | The presentation contains most of the information needed but is rushed. | The presentation is clearly cut off and missing key information. | | 20 | |
| Delivery | The presenters deliver all information in a professional manner that is easy to understand. No member is "hogging" the content of the presentation. | The presenters deliver the information in a somewhat professional manner that is somewhat understandable. The members take turns presenting. | The presenters fail to deliver in a professional manner and are hard to understand. Only some or even just one of the members are even presenting. | | 20 | |
| Organization | The presentation is laid | The presentation is | The presentation is | Dock points for | 20 | |

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| | out in an organized manner. The visual aids are easy to read and appropriate to the presentation. | somewhat organized. The visual aids are readable and somewhat appropriate to the context. | haphazardly put together. The visual aids are hard to read or inappropriate for the context. | missing citations. | | |
| Content | The ideas in the presentation are given in a clear manner. | The ideas in the presentation are given in a somewhat clear manner. | The ideas in the presentation are given in a vague manner. | | 20 | |
| Mastery | The presenters demonstrate that they understand their design. They can answer questions without problems. | The presenters demonstrate some understanding of their design. The presenters can answer some but not all questions. | The presenters fail to demonstrate their understanding of the design. They have difficulty answering all questions. | | 20 | |
| Total | | | | | 100 | |

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| Grand Total | | | | | 360 | |
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