## 2020 RoboPlay Video Competition

### Guiding Rubric

(1) Best Storyline

<table>
<thead>
<tr>
<th>Setting</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no discernible setting.</td>
<td>The setting is unclear or vague.</td>
<td>The setting is clear, but is missing some visual and contextual details.</td>
<td>The setting is clear and includes an adequate amount of visual and contextual details.</td>
<td>The setting is clear and there are many supporting visual and contextual details.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plot Development</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no discernible plot.</td>
<td>The story needs extensive editing. It is too long or too short to be interesting.</td>
<td>The story needs more editing. It is noticeably too long or too short in more than one section.</td>
<td>The story composition is typically good, though it seems to drag somewhat OR needs slightly more detail in one or two sections.</td>
<td>The story is told with exactly the right amount of detail throughout. It does not seem too short nor does it seem too long.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conflict and Resolution</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no conflict nor resolution.</td>
<td>Some conflict is discernible</td>
<td>It is fairly easy for the viewer to understand the problem the main characters face but it is not clear why it is a problem.</td>
<td>It is fairly easy for the viewer to understand the problem the main characters face and why it is a problem.</td>
<td>It is very easy for the viewer to understand the problem the main characters face and why it is a problem.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Theme</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No theme is present in the video.</td>
<td>The theme is present but vague and inconsistent.</td>
<td>The theme is present but inconsistent.</td>
<td>The theme is clear and consistent.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Character Development</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No characterization is evident in the video.</td>
<td>It is hard to tell who the main characters are and there is little or no use of direct or indirect characterization techniques.</td>
<td>The main characters are represented using few direct and indirect characterization techniques. The viewer knows very little about the characters.</td>
<td>The main characters are represented and described using some direct and indirect techniques. Most would have some idea of what the characters are like.</td>
<td>The main characters are represented and clearly described using a variety of direct and indirect techniques. Most could describe the characters accurately.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Creative use of Props</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No props are used in video.</td>
<td>Only one or a few props are used in the video - but not creatively.</td>
<td>One or a few props are used creatively.</td>
<td>Most of the props are used creatively.</td>
<td>All props are used in creative ways.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Script - Dialogue</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No script is present.</td>
<td>Video dialogue does not match the script exactly.</td>
<td>Video dialogue matches the script exactly.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Script - Direction</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>No script is present.</td>
<td>Robot movements do not match the script exactly or stage direction is missing.</td>
<td>Robot movements match the script exactly.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## (2) Most Interesting Task

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical Difficulty</strong></td>
<td>No elements of the task are difficult.</td>
<td>Some elements of the task are difficult but video lacks evidence of effort</td>
<td>Some elements of the task are difficult but shows evidence of effort.</td>
<td>Task is difficult but lacks evidence of effort.</td>
<td>Task is difficult and shows evidence of great effort.</td>
</tr>
<tr>
<td><strong>Innovation</strong></td>
<td>Task is not original, advanced, or new.</td>
<td>Task exhibits one of the following elements: interesting, advanced, original, or new.</td>
<td>Task exhibits two of the following elements: interesting, advanced, original, or new.</td>
<td>Task exhibits three of the following elements: interesting, advanced, original, or new.</td>
<td>Task exhibits all of the following elements: interesting, advanced, original, or new.</td>
</tr>
<tr>
<td><strong>Creative use of Robots</strong></td>
<td>Robots are not used in a creative way.</td>
<td>Some robots are used creatively but use is not innovative.</td>
<td>Some robots are used creatively in an original way.</td>
<td>Use of robots is creative but not new.</td>
<td>Creativity of robot movement is apparent and new.</td>
</tr>
<tr>
<td><strong>Creative Use of Props</strong></td>
<td>No attachments are used in the video.</td>
<td>One attachment is used in the video but not creatively.</td>
<td>One attachment is used creatively.</td>
<td>More than one attachment is used but only one is used creatively.</td>
<td>All attachments are used in creative ways.</td>
</tr>
<tr>
<td><strong>Documentation/Description</strong></td>
<td>No documentation is present.</td>
<td>Documentation names the task but provides no description.</td>
<td>Documentation names the task and provides a brief summary of the task.</td>
<td>Documentation provides a clear or detailed description but lacks purpose.</td>
<td>Documentation provides a clear and detailed description of the task and purpose.</td>
</tr>
<tr>
<td><strong>Script - Dialogue</strong></td>
<td>No script is present.</td>
<td>Video dialogue does not match the script exactly.</td>
<td>Robot movements do not match the script exactly or stage direction is missing.</td>
<td>Robot movements match the script exactly.</td>
<td>Robot movements match the script exactly.</td>
</tr>
</tbody>
</table>
### (3) Best Choreography

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Synchronization with Music</strong></td>
<td>No music present in video.</td>
<td>Music is used but robots do not move with it.</td>
<td>Some of the robot motion is synced with the music.</td>
<td>Most of the robot motion is synced with the music.</td>
<td>All robot motion perfectly syncs with music.</td>
</tr>
<tr>
<td><strong>Technical Difficulty</strong></td>
<td>Robots don't move.</td>
<td>No technical difficulty is present. All robots are following basic movements.</td>
<td>One or two non-basic movements performed.</td>
<td>Robots perform moderately difficult tasks.</td>
<td>Robot motion clearly displays technical difficulty and creative thinking.</td>
</tr>
<tr>
<td><strong>Interaction with Environment</strong></td>
<td>Robots do not interact with the environment.</td>
<td>Robots have little interaction with the environment.</td>
<td>Environmental interaction is clear but takes away from the overall flow of the video or is not original.</td>
<td>Environmental interaction is clear and original but movement detracts from the overall flow of the video.</td>
<td>Environmental interaction is clear and original and movement is fluid.</td>
</tr>
<tr>
<td><strong>Interaction between Robots</strong></td>
<td>No robot interaction or only one robot is used.</td>
<td>Robots have little interaction with each other and interaction is not original.</td>
<td>Robot interaction is clear but takes away from the overall flow of the video or is not original.</td>
<td>The robots clearly interact with each other and interaction is original but interaction takes away from the overall flow of the video.</td>
<td>Robot interaction is clear and original and movement is fluid.</td>
</tr>
</tbody>
</table>

### (4) Best Custom Designed Part (If custom part is indicated)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Complexity</strong></td>
<td>Part is not complex.</td>
<td>Part is moderately complex but lacks creativity.</td>
<td>Part is moderately complex and is used</td>
<td>Part is complex but lacks creativity.</td>
<td>Part is complex and shows creativity.</td>
</tr>
<tr>
<td><strong>Functionality</strong></td>
<td>Part has no functional purpose.</td>
<td>Part has little functional purpose.</td>
<td>Part has some functional purpose but is not unique.</td>
<td>Part has some functional purpose and is somewhat unique.</td>
<td>Functionality of part is clear and unique.</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td>No documentation.</td>
<td>Simple description or drawing of the custom part.</td>
<td>A basic description and drawing of the custom part and reproducibility would be difficult.</td>
<td>A good description and drawing of the custom part are provided but the part may be difficult to reproduce.</td>
<td>Excellent description of the custom part and clean, clear drawings are provided. Part would be easily reproducible.</td>
</tr>
</tbody>
</table>
(5) Best Film Promoting Computational Thinking

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<tbody>
<tr>
<td><strong>Code Precision and Brevity</strong></td>
<td>Code is very short and simple.</td>
<td>Code is short and simple and difficult to read.</td>
<td>Code is awkward and hard to follow, but can be read.</td>
<td>Code is precise or easy to follow but not both.</td>
<td>Code is clean, concise, and easy to follow.</td>
</tr>
<tr>
<td><strong>Code Comments</strong></td>
<td>No comments beyond required headers.</td>
<td>Sparse and incomplete comments.</td>
<td>Comments are sparse but when present they are complete.</td>
<td>Many comments but lacking in detail or information.</td>
<td>Very well commented. Detailed and informative.</td>
</tr>
<tr>
<td><strong>Complex Structures</strong></td>
<td>Lacks use of complex structures.</td>
<td>Uses at least one function, loop, or branching logic.</td>
<td>Uses at least two of functions, loops, or branching statements.</td>
<td>Uses at least one of each functions, loops, and branching statements.</td>
<td>Uses multiple of each functions, loops, and branching logic.</td>
</tr>
<tr>
<td><strong>Completeness of Ch Code</strong></td>
<td>Robot movements do not correlate to code.</td>
<td>Robot movements somewhat correlate to code.</td>
<td>Most robot movements correlate to code.</td>
<td>All robot movements are represented in the code.</td>
<td>All robot movements are innovatively represented in the code.</td>
</tr>
</tbody>
</table>

(6) Best Application of Advanced Robotics and Electronics

In order to be considered for this award, videos must include use of Arduino or Raspberry Pi.

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<tr>
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<tbody>
<tr>
<td><strong>Advanced Electronics</strong></td>
<td>No advanced electronics are used</td>
<td>Arduino or Raspberry Pi are used but not well; no sensors are used</td>
<td>Arduino or Raspberry Pi is integral to the video</td>
<td>Sensors are used with Arduino or with Raspberry Pi</td>
<td>Sensors and Arduino or Raspberry Pi are used and are well-integrated into the video</td>
</tr>
<tr>
<td><strong>Task</strong></td>
<td>No discernable task is performed</td>
<td>A task is performed but not relevant to the Arduino or Raspberry Pi</td>
<td>Task has some relevance to Arduino or Raspberry Pi</td>
<td>Task is clearly relevant to sensors and Arduino or Raspberry Pi</td>
<td>Sensors and Arduino or Raspberry Pi are an integral part of the task</td>
</tr>
<tr>
<td><strong>Complexity of Ch Code</strong></td>
<td>Lacks use of complex structures; code is very simple.</td>
<td>Code is simple but has at least one function, loop, or branching logic.</td>
<td>Code is readable and has two of functions, loops, or branching statements.</td>
<td>Code is easy to follow and contains at least one of each of functions, loops, and branching statements.</td>
<td>Code is clean and contains multiple of each of functions, loops, and branching logic</td>
</tr>
<tr>
<td><strong>Quality of Ch Code</strong></td>
<td>Code has no comments and is not complete.</td>
<td>Code has minimal comments but does not entirely correlate to video.</td>
<td>Code does correlate to the video but is not explained in comments</td>
<td>Code correlates to the video and is explained in comments</td>
<td>Code correlates to the video innovatively and is explained thoroughly in comments</td>
</tr>
</tbody>
</table>
## (7) Best Theme of the Year (Adventure and Exploration)

<table>
<thead>
<tr>
<th></th>
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<th>3</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Storyline, as it relates to Theme of the Year</strong></td>
<td>Theme of the Year is not discernible in the storyline.</td>
<td>Theme of the Year is present, but isn't integrated into the storyline.</td>
<td>Theme of the Year is apparent in the storyline.</td>
<td>The storyline features Theme of the Year as an important component.</td>
<td>The storyline relies heavily on the Theme of the Year and the two are creatively integrated with one another.</td>
</tr>
<tr>
<td><strong>Tasks related to Theme of the Year</strong></td>
<td>Theme of the Year is not discernible in the tasks performed.</td>
<td>Theme of the Year is present but is not related to any of the tasks performed.</td>
<td>A basic task related to the Theme of the Year is performed.</td>
<td>A creative or difficult task is related to the Theme of the Year.</td>
<td>Robots repeatedly perform tasks related to the Theme of the Year that are creative and/or difficult.</td>
</tr>
<tr>
<td><strong>Choreography related to Theme of the Year</strong></td>
<td>Theme of the Year is not discernible in the choreography.</td>
<td>Theme of the Year is present but is not related to any choreography.</td>
<td>Choreography is related to the Theme of the Year in some way.</td>
<td>Robots perform moderately difficult tasks related to Theme of the Year.</td>
<td>Robots interact and perform difficult tasks related to Theme of the Year.</td>
</tr>
<tr>
<td><strong>Setting, as it relates to Theme of the Year</strong></td>
<td>Theme of the Year is not discernible in the setting.</td>
<td>Theme of the Year is present, but the setting is not developed.</td>
<td>The environment is related to the Theme of the Year in a basic way.</td>
<td>Theme of the Year is integral to the setting, but is lacking in creativity or design effort.</td>
<td>The setting is carefully detailed and designed to fit with the Theme of the Year.</td>
</tr>
</tbody>
</table>