# Rubrics for External Design Review

<table>
<thead>
<tr>
<th></th>
<th>(4) Advanced - A</th>
<th>(3) Proficient - B</th>
<th>(2) Basic - C</th>
<th>(1) Below Basic - D or E</th>
</tr>
</thead>
</table>
| **Timeliness**      | • Prototype is fully functional at the time of review  
                      • Group is present and ready to begin on time | • Prototype is semi-functional (has at least one working component) at the time of review  
                      • Group is present and ready to begin on time | • Prototype is together, but not functional at the time of review  
                      • Group is present but not ready to present | • Prototype is not built or functional at time of review.  
                      • Not all group members are present, and group is not ready |
| **Presentation**    | • Discussion remains professional in tone and direction  
                      • Discussion proceeds efficiently due to understanding and articulation of the group ideas and design  
                      • Group is able to focus on relevant aspects of the robot design | • Discussion remains professional in tone and direction  
                      • For the most part discussion proceeds efficiently  
                      • Group may not focus on relevant aspects of design, but does articulate important issues | • Discussion does not have a professional tone or manner  
                      • Discussion does not stay on topic  
                      • Students may articulate some ideas of the project, but do not focus on main aspects of robot design | • Little discussion occurs during the presentation  
                      • Students show lack of understanding of group ideas and design of robot  
                      • Group does not focus discussion |
| **Project Management** | • Development is in line with timeline submitted with proposal  
                        • Group member roles and responsibilities are defined and adhered to  
                        • Schedule for future development is practical and workable | • Development is mostly in line with timeline submitted with proposal  
                        • Group members have roles and responsibilities which were mostly adhered to  
                        • Schedule for future development is present and likely practical and workable | • Group member do not abide by timeline that was submitted with proposal  
                        • Group members do not adhere to clearly defined set of roles and responsibilities  
                        • Future development is present but may not be in schedule or practical and workable | • Timeline is not submitted, or timeline is disregarded during development process  
                        • Group members do not clearly define roles  
                        • No schedule for future development is created |
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<tbody>
<tr>
<td><strong>Progress (30%)</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• Project shows a clear progression beyond what was available at the time of proposal</td>
<td>• Project has progressed from what was available at time of proposal</td>
<td>• Project has made only fair progression beyond what was available at the time of proposal</td>
<td>• Project has not progressed from time of proposal</td>
</tr>
<tr>
<td></td>
<td>• Every team member has effectively contributed to development</td>
<td>• Most team members have effectively contributed to development</td>
<td>• Few team members have effectively contributed to development</td>
<td>• Little contribution from any team member</td>
</tr>
<tr>
<td></td>
<td>• Decisions show evidence of a thoughtful decision-making process</td>
<td>• Most decisions show evidence of use of a thoughtful decision-making process</td>
<td>• Decision were made without using a decision-making process</td>
<td>• No clear decisions made</td>
</tr>
<tr>
<td></td>
<td>• Group has given appropriate consideration to all aspects of development, including mechanics, programming, and testing</td>
<td>• Group has spent some time considering all aspects of development</td>
<td>• Group has spend little time considering all aspects of development</td>
<td>• Group did not consider all aspects of development</td>
</tr>
</tbody>
</table>

| **Future Plans (15%)** | | | | |
| | • Group can describe what aspects of design will be worked on next | • Groups can give overall ideas of what future aspects of design will look like | • Groups have very little idea about future aspects of design | • Group has not thought about future aspects of design |
| | • Groups has prioritized remaining tasks to ensure project will be completed on time | • Group has prioritized the ideas they have come up with for future design | • Group can provide a sketch of a timeline for future ideas | • Group has no timeline to get future tasks done |

• Group can describe what aspects of design will be worked on next
• Groups has prioritized remaining tasks to ensure project will be completed on time

(4) Advanced - A (3) Proficient - B (2) Basic - C (1) Below Basic - D or E

(Cont.)