

Robot Design



CHALLENGE

| | | |
|--------|-----------|--------------|
| Team # | Team Name | Judging Room |
|--------|-----------|--------------|

Instructions

Teams should communicate to the judges their achievement in each of the criteria below. This rubric should be filled out during the Robot Design explanation.

Judges are required to tick one box on each separate line to indicate the level the team has achieved. If the team exceeds, please make a short comment in the Exceeds box.

| BEGINNING 1 | DEVELOPING 2 | ACCOMPLISHED 3 | EXCEEDS 4 | |
|---|--|---|--------------------------|-----------------------------------|
| | | | | <i>How has the team exceeded?</i> |
| IDENTIFY - Team had a clearly defined mission strategy and explored building and coding skills they needed. | | | | |
| <input type="checkbox"/> No clear mission strategy | <input type="checkbox"/> Partially clear mission strategy | <input type="checkbox"/> Fully clear mission strategy | <input type="checkbox"/> | |
| <input type="checkbox"/> Some team members learned building and coding skills | <input type="checkbox"/> Many team members learned building and coding skills | <input type="checkbox"/> All team members learned building and coding skills | <input type="checkbox"/> | |
| DESIGN - Team produced innovative designs and a clear workplan, seeking guidance as needed. | | | | |
| <input type="checkbox"/> Minimal evidence of an effective workplan | <input type="checkbox"/> Some evidence of an effective workplan | <input type="checkbox"/> A lot of evidence of an effective workplan | <input type="checkbox"/> | |
| <input type="checkbox"/> Minimal explanation of robot and code's innovative features | <input type="checkbox"/> Some explanation of robot and code's innovative features | <input type="checkbox"/> A lot of explanation of robot and code's innovative features | <input type="checkbox"/> | |
| CREATE - Team developed an effective robot and code solution matching their mission strategy. | | | | |
| <input type="checkbox"/> Limited functionality of robot attachments or sensors | <input type="checkbox"/> Developing functionality of robot attachments or sensors | <input type="checkbox"/> Good functionality of robot attachments or sensors | <input type="checkbox"/> | |
| <input type="checkbox"/> Unclear explanation of how code makes their robot act | <input type="checkbox"/> Partially clear explanation of how code makes the robot act | <input type="checkbox"/> Fully clear explanation of how code makes their robot act | <input type="checkbox"/> | |
| ITERATE - Team repeatedly tested their robot and code to identify areas for improvement and incorporated the findings into their current solution. | | | | |
| <input type="checkbox"/> Minimal evidence of testing their robot and code | <input type="checkbox"/> Some evidence of testing their robot and code | <input type="checkbox"/> A lot of evidence of testing their robot and code | <input type="checkbox"/> | |
| <input type="checkbox"/> Minimal evidence their robot and code was improved | <input type="checkbox"/> Some evidence their robot and code was improved | <input type="checkbox"/> A lot of evidence their robot and code was improved | <input type="checkbox"/> | |
| COMMUNICATE - Team's explanation of the robot design process was effective and showed how all team members have been involved. | | | | |
| <input type="checkbox"/> Unclear explanation of robot design process | <input type="checkbox"/> Partially clear explanation of robot design process | <input type="checkbox"/> Fully clear explanation of robot design process | <input type="checkbox"/> | |
| <input type="checkbox"/> Clear evidence that some team members involved | <input type="checkbox"/> Clear evidence that many team members involved | <input type="checkbox"/> Clear evidence that all team members involved | <input type="checkbox"/> | |

Feedback Comments

Great Job:

Think about:

