

Robotics and Programming

Area	Mastery	Most	Some	None
Presentation: Did the student(s) demonstrate a solid understanding of the software for project development?	Mastery in the use of software. Thorough explanation of all steps involved in completing the project.	Competence in the use of software. Satisfactory explanation of the steps involved.	Some understanding of the basic use of the software. Offered little explanation of the steps involved.	No understanding of the software. Did not explain the steps involved in the completion of the project.
Documentation: Did the student document non-student produced materials?	ALL required permissions present OR no permissions needed.	Most required permissions included.	Some required permissions included, but not all.	No required permissions present.
Efficiency: How efficient did the operations function to achieve the solution?	Project presented a focused and efficient solution for the stated task.	Project has some non-functional parts or parts that have nothing to do with solving the stated task.	Project has many non-functional parts or parts that have nothing to do with solving the stated task.	No part of the project is focused on solving the stated task.
Performance: Does machine perform the stated task in an efficient manner?	Project performs the stated or intended task flawlessly.	Project performs well with an occasional mistake.	Project performs but makes many mistakes.	Project does not perform the stated task.
Judge will score on only 1 of 2 categories that follow. Autonomous is for Robot design and Readability is for Programming Code.				
Autonomous (Robotic only): Did the machine perform task without any human interaction?	No human interaction or remote control required.	Little human interaction needed.	Some human interaction needed.	Human interaction and/or remote control required.
Readability (Code only) How organized is the code and can it be reused?	The code is exceptionally well organized and very easy to follow.	The code is fairly easy to read.	The code is readable only by someone who knows what it is supposed to be doing.	The code is poorly organized and very difficult to read.