

Name 1D Final Project Part I

Description

Rubric Detail

	Levels of Achievement		
Criteria	Novice	Competent	Proficient
Utility	0 to 2 points Students do not make use of any sensor or actuator available in Thymio or R-Pi. Solutions do not have GUI and internet connection.	2 to 4 points Students make use of one sensor or actuator available in either Thymio or R-Pi. Superficial use of internet and GUI.	4 to 5 points Students make use of more than one sensors or actuators available in either Thymio or R-Pi or both. Makes use of internet as part of the solution. Applied GUI as part of its solution.
Problem Definition	0 to 2 points Students do not solve interesting real-world problem.	2 to 4 points Students solved a real-world problem.	4 to 5 points Students solved interesting and real-world problem. Students define and clarify the scope well. The problem is aligned with the theme "smart campus".
Solution	0 to 2 points Solutions proposed provide little help to solve the problem.	2 to 4 points Solutions proposed helps to solve the problem. Solutions are feasible.	4 to 5 points Solutions proposed helps to solve the problem, are creative and impactful. Solutions are feasible. Students are able to justify why the solution is aligned with the theme " smart campus". Solutions make use of the concept internet-of-things. (Solutions have some "smartness" using data analysis and prediction. This is optional and only graded on Part II when it is successfully implemented)
Presentation	0 to 2 points	2 to 4 points	4 to 5 points

Students did not present or presentation is not prepared well.

Presentations are prepared and structured, covers all the necessary items. All members in the teams are involved during the presentation.

Presentations are prepared and structured, covers all the necessary items. All members in the teams are involved during the presentation. Visuals are appropriate and engaging. It has good opening, state the problem clearly, propose impactful solution.

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