**iRobot. Criterion B: Design**

* Students are expected to generate several feasible designs that meet the design specification and to evaluate these against the design specification.
* Students are then expected to select one design, justify their choice and evaluate this in detail against the design specification.

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| **Achievement level** | **Level Descriptor** | **Task Specific Clarifications** |
| **0** | The Student did not reach a standard described by any of the descriptors given below. | Your design page is incomplete and there is little evidence of any prototypes being made and tested. |
| **1–2** | The student generates one design, and makes some attempt to justify this against the design specification. | You have only one design presented without mentioning the software. There is some evaluation using the design specification.  You have videos of your prototype(s) but have little or no reflection of their success. |
| **3–4** | The student generates a few designs, justifying the choice of one design and fully evaluating this against the design specification. | You have created 2 -3 prototypes which have been somewhat described on your website.  You have not evaluated all your designs using the design specification.  You have videos of your prototypes but have little reflection of their success. |
| **5–6** | The student generates a range of feasible designs, each evaluated against the design specification. The student justifies the chosen design and evaluates it fully and critically against the design specification. | You have made 3 or 4 prototypes, all of which were first well described on your website, including software design. You have evaluated each prototype using your design specification.  You have used Lego Digital designer to enhance your explanations.  You have videoed all your testing and have justified your final choice and have evaluated it against the design specification. |