***Morphological analysis***

Here the simplicity of the design and functionality was the goal

From different options four wheel-base with 4 DC motors were the design selected

|  |  |  |  |
| --- | --- | --- | --- |
| Motor | DC | brushless | servo |
| Wheel type | Cylindrical | Spherical |  |
| Base material | Wood | Steel |  |
| Wheel support | Bearing | Motor casing |  |

As a final choice a DC motor connected to the main body and the wheel directly was choosing to increase the simplicity of design