Requirement specification:

1. Main Controller: Microcontroller (8-bit architecture)
2. Motor Selection:
   1. Linear Motion (height)-Brushless DC Motor/DC Motor
   2. Rotational Motion 1: Servo Motor
   3. Rotational Motion 2: Servo Motor
3. Encoder (for BLDC Motor):
   1. Incremental Encoder
4. Motor Driver:
   1. Linear Motor Driver (for BLDC Motor)
   2. Servo Motor Drivers (2): for 2 Servo Motors
5. User-Controller Communicating Circuitry:
   1. Bluetooth Module: for accepting user inputs

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| Requirement ID | Description |
| SC-EE01 | Main Controller – Micro-Controller Unit |
| SC-EE02 | Linear Motion Motor (for vertical movement) – BLDC Motor |
| SC-EE03 | Servo Motor 1 (for rotational movement) |
| SC-EE04 | Servo Motor 2 (for rotational movement) |
| SC-EE05 | Encoder (for BLDC Motor) |
| SC-EE06 | Motor Driver (for BLDC Motor) |
| SC-EE07 | Power Supply Adaptor to convert to operational DC Voltage |
| SC-EE08 |  |
| SC-EE09 |  |
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