Inputs

# Muscle Sensor

* Relax -> 00
* First Gesture -> 01
* Second Gesture -> 10

# Motion Sensor X-axis

* Center. -> 00
* Up. -> 01
* Down. -> 10

# Muscle Sensor

* Center. -> 00
* Right. -> 01
* Left. -> 10

States

1. Center and Relax.
2. First Gesture.
3. Second Gesture.
4. Up – Wait.
5. Down – Wait.
6. Right – Wait.
7. Left – Wait.
8. Up.
9. Down.
10. Right.
11. Left.
12. Up – Right.
13. Up – Left.
14. Down – Right.
15. Down – Left.
16. Error

Inputs Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| HEX | Muscle | | X-Axis | | Y-Axis | | Meaning |
| 00 | 0 | 0 | 0 | 0 | 0 | 0 | Center and Relax |
| 01 | 0 | 0 | 0 | 0 | 0 | 1 | Right |
| 02 | 0 | 0 | 0 | 0 | 1 | 0 | Left |
| 03 | 0 | 0 | 0 | 0 | 1 | 1 | Undefined in Y |
| 04 | 0 | 0 | 0 | 1 | 0 | 0 | Up |
| 05 | 0 | 0 | 0 | 1 | 0 | 1 | Up – Right |
| 06 | 0 | 0 | 0 | 1 | 1 | 0 | Up – Left |
| 07 | 0 | 0 | 0 | 1 | 1 | 1 | Undefined in Y |
| 08 | 0 | 0 | 1 | 0 | 0 | 0 | Down |
| 09 | 0 | 0 | 1 | 0 | 0 | 1 | Down – Right |
| 0A | 0 | 0 | 1 | 0 | 1 | 0 | Down – Left |
| 0B | 0 | 0 | 1 | 0 | 1 | 1 | Undefined in Y |
| 0C | 0 | 0 | 1 | 1 | 0 | 0 | Undefined in X |
| 0D | 0 | 0 | 1 | 1 | 0 | 1 | Undefined in X |
| 0E | 0 | 0 | 1 | 1 | 1 | 0 | Undefined in X |
| 0F | 0 | 0 | 1 | 1 | 1 | 1 | Undefined in X,Y |
| 1X | 0 | 1 | X | X | X | X | First Motion |
| 2X | 1 | 0 | X | X | X | X | Second Motion |
| 3X | 1 | 1 | X | X | X | X | Undefined in Muscle |

State Transition Table

Read the file STT.pdf and edit from STT.xlsx