

# 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

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