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# **turtle robot**

01-09-2019

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| Sl. No. | Revision | Date |
| 1. | Initial Draft | 01-09-19 |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |

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**Introduction:**

Turtle Robot is an advanced programmable Robot that can move according to the command given to the Robot in the form of LOGO language.

This will consist of 2 stepper motors for precise rotation and forward /backward movement. There will be one servo for purpose of Pen Up and Pen Down.

**Functions:**

1. Move according to the command given, below are some commands for the Robot movement.

|  |  |  |
| --- | --- | --- |
| No. | Command | Parameters |
|  | FD | Dist. In mm for e;g 40 |
|  | BK | Dist. In mm for e;g 40 |
|  | RT | Angle in degrees for e;g 90 |
|  | LT | Angle in degrees for e;g 90 |
|  | PU | No Parameters |
|  | PD | No Parameters |

1. Stepper Motor Driver:

2 stepper motor for precise movement.

1. Servo Control :

To control the pen attached to the robot.

1. Bluetooth module:
   1. To take command wirelessly from Android mobile App.
   2. To take command wirelessly from Laptop through windows App.
2. Power module :
   1. 1 LiPo battery with Charger and Booster circuit.
3. LED / Buzzer indicator : LED status to show if program is received or not.

Also , to show for any error or status .