BLUETOOTH-CONTROLLED TABLE TENNIS SERVE MACHINE

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PROBLEM

- Practicing table tennis serves alone can be difficult, as players often struggle to maintain consistency variety in their practice session.
- Without training partner to provide feedback and variations in serves, players may find challenging to improve their skills effectively.

SOLUTION

- Developed a solution, "BLUETOOTH-CONTROLLED TABLE TENNIS SERVE MACHINE".
- This can automatically serve table tennis balls with adjustable parameters such as speed, spin, and placement.
- It can create a wide range of serve types.

KEY FEATURES

- Bluetooth Connectivity
- Customizable Settings via Mobile
- Automated Ball Feeding
- Durable
- Light weight Design

BENIFITS

- Can improve your reaction time and shot selection.
- Can develop your serve skills with consistent, reliable ball delivery.
- Can enjoy endless practice sessions without the need for a playing partner.
- Can bring the table tennis court to any location.

COMPONENTS

- DC 550 (22000 RPM)
- Servo motor (SG90)
- Tt motor (gear)
- IR sensor
- Potential meter (KY040)
- Arduino mega, uno
- L293d motor controller
- Bluetooth Arduino module (HC-05 or HC-06)
- Buzzer module
- 12V power supply
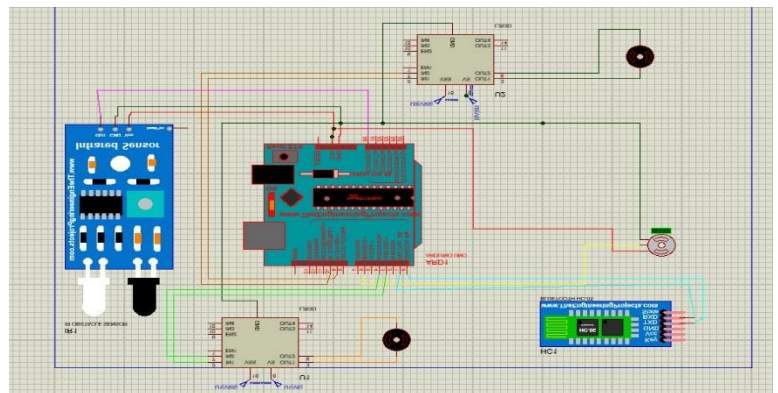
TECHNICAL SPECIFICATIONS

- Signal range
  - 10-20 m
- Serving speed range
  - 20 – 35 km/h
- Ball capacity
  - 100 balls
- Operating voltage
  - 3.6 – 6.0 V

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