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Smart Ping Pong Ball Machine
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https://github.com/Abshir-Mohamud/BallSensor
Pressure Sensor
Whether ball is in place or after 30 seconds that the series of volleys have ended
Previous game histories with accurecy percentage, weekly/monthly track
imporvements. The user can also set the machine to make consent types of shot to
train in areas they may lack in
Sebastian Dwornik
same group
Ping Pong Ball machines functionality is usually limited to just shooting a ball in a set
trajectory for the user to return back, this leaves the user to an eventual end in there
growth when relying to these machines leaving the investment that was initially made
completely worthless.
The ping pong ball machine is loaded with any given amount of tennis balls that the user can fit into the machine (specific amount has not been decided). A pressure sensor is placed at the end of the tube where a only a single ping pong ball can be placed and blocks any other balls from entering. Once a single ball the ball is pushed into place so that it may be shot out by the given motors with the apporpriate spin. A proximity sensor is placed at the end of the nozel to count the number of balls shot
for calculation of accuracy at the end
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N/A
N/A
I am using an Arduino Uno as ask the pressure sensor to convery a signal when a ball is placed on it. This also allows the wifi module to signal the end of the data collection after a given amount of time that balls aren't received
My tennis ball machine purpose is a long term investment to those who wishs to
imporve on there tennis ball skills so the machine contains several functionallity
additions such as speed, spin and direction changes as well as a record of the users
history to track imporvment