Remote Safe

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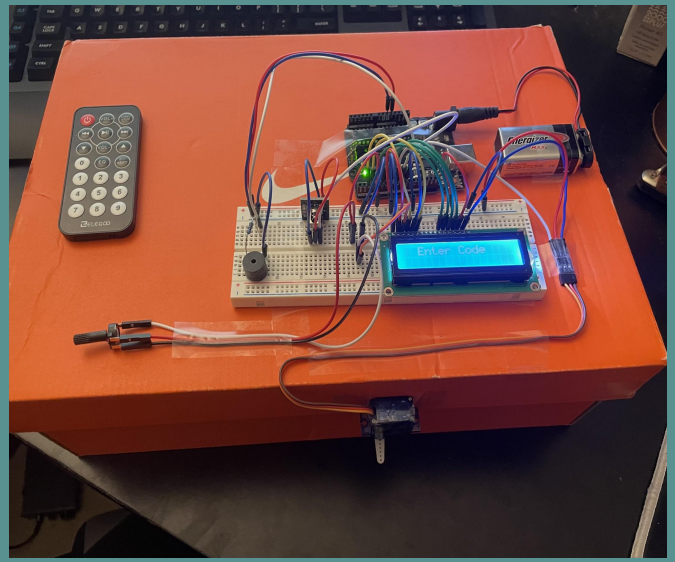
Purpose

The purpose of this robot is to securely store objects; this comes with the caveat that the robot operates under the assumption that it will not be destroyed to access its contents. More concisely, our robot acts as a safe.



Materials

- LCD Screen
- IR receiver
- 100 Ohm Resistor
- 23 Jumper Cables
- Shoebox
- IR remote
- Arduino Uno
- Servo Motor

Summary

Our robot operates by reading user input from a remote through an infrared receiver module. If the input matches the desired code (0, 1, 2, 3) for the safe, then the safe door unlocks by rotating the servo motor and a message is displayed in-screen. Otherwise, the user is informed that the code was wrong through the serial monitor. The safe can be re-locked with a separate “reset” button on the remote.