Concept minute hourglass

The minute hourglass is a stopwatch object that helps keeping track of time with the help of a clock hand and rgb leds.

Material List

* Arduino uno
* Stepper motor
* 12 rgb led’s
* Jumper wires
* Plywood 2mm
* Plexiglass 2mm
* Standoff spacers (2 cm long)
* Soldering tin

Tool List

* Laser cutter
* 3D printer
* Soldering station

Steps

Step 1: Print 3D components

Step 2: Laser cut clock face front & back

Step 3: Laser cut arduino holder case

Step 4: Connect stepper motor and Arduino

Step 5: Insert rgb leds and connect to Arduino

Step 6: Use standoff spacers to connect clock faces together

Step 7: Connect 3D components to each other and stepper motor

Step 8: Upload code to arduino