Save Point Video Games RGBW Puck

Designed and Built by John Marsh for Wilder Hamm for holidays 2018.

Code Repository: https://github.com/Wolfmarsh/SPVGSign

Build Log: https://imgur.com/a/hORZ4PY

Design Overview: The shell is made from a solid block of Ash wood. The design was made in Fusion 360 and cut on an X-Carve CNC router. The electronics are a Trinket Mini 5v 8Mhz with a strip of flexible RGBW neopixels and a 1000uF capacitor in parallel with the power lines for the LED strip. It is driven by a 5V 2A wall wart with a 2.1mm plug.

Setup: The puck can be hung on a nail or equivalent hanger using the sawtooth hanging bracket integrated into the back of the unit. It can also be propped up for display on a desk or on a shelf. Plug the wall transformer into an outlet then plug the 2.1mm plug into the 2.1mm jack coming from the puck. After a brief bootup pause, the unit will cycle through the RGBW leds in turn as a test, display a rainbow cycle, and then begin normal operation.

Operation: In the release code, every 3 minutes a random effect will play. The puck will spent the majority of its time using the White LEDs for a more authentic replication of the SPVG logo.